

## **State Energy Consumption Estimates 1960 Through 2022**





## 2022 Consumption Summary Tables

Table C1. Energy consumption overview: estimates by energy source and end-use sector, 2022 (trillion Btu)

State Alabama Alaska	Total energy b,c	Coal	Fossi	I fuels									
	4 000 4	Joan	Natural gas <sup>d</sup>	Petroleum <sup>e</sup>	Total <sup>b</sup>	Nuclear electric power	Renewable energy <sup>c,f</sup>	Net interstate flow of electricity <sup>g</sup>	Electricity net imports <sup>h</sup>	Residential	Commercial	Industrial <sup>b</sup>	Transportation <sup>©</sup>
		<u> </u>		I							l l		1
Alaska	1,902.4	297.7	787.2	576.6	1,661.5	441.3	232.5	-433.0	0.0	332.9	244.4	774.3	551.6
Arizona	724.1 1,526.9	18.6 154.0	437.9 468.0	252.4 609.0	709.0 1,231.1	0.0 333.1	15.1 102.4	0.0 -139.7	0.0	50.0 404.4	55.5 337.1	429.8 219.5	189.0 567.4
Arkansas	1,052.5	211.7	397.7	325.5	934.9	149.4	88.2	-139.7	(s) 0.0	218.3	172.7	378.9	283.3
California	6,882.4	30.0	2,130.9	3,044.7	5,205.7	183.5	882.0	600.4	10.9	1,203.7	1,193.1	1,539.3	2,915.8
Colorado	1,464.0	233.3	524.7	568.9	1,326.9	0.0	121.1	16.0	0.0	339.4	253.0	372.5	501.1
Connecticut	707.6	0.0	307.2	303.3	610.5	171.7	39.0	-113.6	0.0	235.3	178.1	68.7	225.9
Delaware	274.8	1.8	89.7	111.9	203.4	0.0	39.0 7.2	64.2	0.0	64.6	52.4	80.6	
Dist. of Col.	141.0	0.0	30.2	18.0	48.1	0.0	2.6	90.3	0.0	35.6	82.6	5.2	17.7
Florida	4,325.0	172.0	1.659.7	1.810.6	3,642.2	320.9	300.7	61.2	0.0	1,182.6	930.4	477.1	1,738.8
Georgia	2,836.2	180.9	812.4	938.6	1,931.9	355.4	286.8	262.2	0.0	697.2	527.4	738.9	
Hawaii	270.3	7.7	0.2	241.9	249.7	0.0	20.6	0.0	0.0	30.1	36.6	47.7	155.8
Idaho	519.0	1.9	141.9	189.2	333.0	0.0	86.2	99.8	0.0	123.3	78.5	148.2	
Illinois	3,675.6	497.0	1,136.9	1,140.1	2,774.0	1,031.1	245.1	-374.6	0.0	925.5	743.9	1,109.0	892.8
Indiana	2,618.9	719.2	913.4	696.3	2,329.0	0.0	170.3	119.6	0.0	514.1	356.9	1,180.0	569 1
lowa	1,423.2	227.9	433.7	424.5	1,086.1	0.0	417.9	-80.7	0.0	193.3	356.9 159.1	771.3	569.1 297.8
Kansas	1,000.7	226.7	318.0	345.0	889.7	93.7	152.5	-135.2	0.0	189.3	175.2	369.9	266.9
Kentucky	1,673.2	523.3	402.5	578.3	1,504.1	0.0	81.0	88.1	0.0	338.4	249.4	589.2	497.2
Louisiana	4,246.0	96.9	2,073.7	1,655.1	3,825.7	168.6	133.5	118.2	0.0	302.0	238.7	2,950.5	755.9
Maine	335.3	1.3	62.6	166.4	230.2	0.0	101.8	-3.2	6.5	86.9	58.3	82.7	107.6
Maryland	1,202.8	61.9	310.1	410.7	782.7	154.5	48.0	217.6	0.0	370.8	350.7	87.5	394.7
Massachusetts	1,315.2	0.0	432.4	526.8	959.2	0.0	75.1	280.9	0.0	393.8	366.6	134.8	420.5
Michigan	2,706.8	423.5	1,087.6	822.2	2,333.3	271.3	200.3	-104.0	6.0	753.9	579.0	664.0	710.8
Minnesota	1,759.9	184.5	533.9	573.2	1,291.6	153.3	230.4	69.2	15.5	402.4	338.0	567.7	447.2
Mississippi	1,099.8	66.2	622.2	382.0	1,070.4	89.7	65.3	-125.6	0.0	191.6	150.7	405.3	352.9
Missouri	1,733.4	566.9	322.5	603.9	1,493.4	92.6	101.8	45.7	0.0	512.6	383.8	293.8	
Montana	395.3	131.3	94.0	176.0	401.3	0.0	68.5	-70.6	-3.9	90.8	72.1	117.6	115.6
Nebraska	846.4	223.6	198.7	236.2	658.5	58.6	168.6	-39.3	0.0	143.0	122.7	381.4 142.9	199.7
Nevada	706.1	35.8	302.3	302.2	640.4	0.0	73.3	-7.6	0.0	157.3	129.9	142.9	276.5
New Hampshire	297.2	3.9 6.2	_60.1	148.6	212.6	113.9	40.0	-69.2	0.0	94.1	64.7	38.0	100.5
New Jersey	2,014.4		755.0	768.6	1,529.8	295.3	65.0	124.2	0.0	566.8	545.7	258.1	645.2
New Mexico	687.6	138.1	302.0	253.9	694.0	0.0	82.0	-88.5	0.0	107.9	102.7	248.0	230.0
New York	3,452.7	6.1	1,402.2	1,319.9	2,728.3	279.6	270.7	132.4	41.7	1,024.8	969.8	329.5	1,128.1
North Carolina	2,568.8	163.0	747.2		1,813.6	444.7	192.2	118.3	0.0	672.6	558.3	533.5	
North Dakota	670.6	369.3	193.2	169.6	732.2	0.0	97.8	-176.0	16.6	63.9	90.0	380.7	136.0
Ohio	3,503.2	539.6	1,421.8	1,031.4	2,992.8	175.5	144.6	190.3	0.0	844.5	651.4	1,136.8	
Oklahoma	1,526.4	106.9	782.2	519.3	1,408.4	0.0	188.6	-70.6	0.0	245.2	208.8	617.4	456.0
Oregon	857.3	1.1	297.6	319.2	617.8	0.0	247.5	-8.1	0.0	180.9	134.0	233.2	305.6
Pennsylvania Rhode Island	3,736.9	435.5	1,936.6 93.8	1,104.6	3,476.7	794.3	184.8	-719.0	0.0	880.7	559.4	1,445.3	852.5
	186.6 1,623.4	0.0 151.0	361.2	79.0 494.2	172.8 1,006.4	0.0 567.0	10.9 143.1	2.9 -93.1	0.0 0.0	60.5 374.4	46.9 288.8	22.1 498.4	57.3 463.6
South Carolina South Dakota	358.4	24.8	103.2	118.1	246.1	0.0	130.0	-17.8	0.0	49.0	200.0 41.7	496.4 165.8	102.0
Tennessee	2,101.8	204.7	440.0	706.9	1,351.6	371.6	113.1	265.5	0.0	505.1	420.0	514.0	
Texas	13,780.6	932.6	4,977.4	6,572.7	12,482.6	433.9	742.8	133.3	-12.0	1,633.4	1,546.1	7,338.5	3,268.8
Utah	848.7	237.9	287.0	320.4	845.3	0.0	36.7	-33.3	0.0	192.1	176.2	201.0	280.6
Vermont	124.8	0.0	14.0	71.5	85.6	0.0	30.6	-38.2	46.8	41.4	25.3	16.0	
Virginia	2,427.8	67.7	665.9	797.0	1,530.7	294.1	165.5	437.6	0.0	544.3	734.1	417.4	734.2
Washington	1,571.4	42.2	381.9	723.7	1,147.8	102.7	426.1	-117.7	12.5	334.6	240.5	376.2	
West Virginia	835.5	536.6	284.8	202.3	1,023.8	0.0	30.5	-218.8	0.0	153.8	107.0	383.9	191.7
Wisconsin	1,768.6	232 5	621.9	533.6	1,388.0	105.1	159.7	115.8	0.0	430.9	363.5	535 1	439 9
Wyoming	496.2	390.3	172.5	144.5	707.3	0.0	159.7 45.4	-256.5	0.0	50.3	363.5 53.7	288.3	104.6
United States	94,773.7	9,885.7	33,334.1	35,331.9	78,495.9	8,046.4	8,090.8	0.0	140.6	19,534.1	16,545.2	31,049.7	

a End-use sector estimates include electricity sales and associated electrical system energy losses.
 b U.S. total includes -55.8 trillion Btu of net imports of coal coke that are not allocated to the states.
 c U.S. total includes 25.5 trillion Btu of other biofuels not allocated to the states.

flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

h Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412

d Excludes supplemental gaseous fuels.
 e Excludes biofuels blended into petroleum products and biofuels product supplied. Biofuels are included in

<sup>&</sup>quot;Renewable energy."

f Includes biomass (wood, biomass waste, biodiesel, fuel ethanol, renewable diesel, and losses and co-products from biofuel production), conventional hydroelectric power, geothermal, solar thermal and photovoltaic, and wind energy.

<sup>&</sup>lt;sup>9</sup> Includes the energy losses associated with the generation, transmission, and distribution of the electricity

<sup>&</sup>quot;Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Where shown, (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. 
http://www.eia.gov/state/seds/

Table C2. Energy consumption estimates for selected energy sources in physical units, 2022

							Petroleum								
 		Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f,g</sup>	Total <sup>g</sup>	Nuclear electric power	Hydro- electric power <sup>h</sup>	Wind	Fuel ethanol <sup>i</sup>	Biodiesel
	State	Million short tons	Billion cubic feet				Million barrels					Billion kilowatthours		Million	barrels
)	Alabama	15.9	763.6	27.3	2.6	1.7	76.2	1.4	6.1	115.3	42.3	10.2	0.0	7.9	0.6
	Alaska	1.2	445.0	12.2	0.3	21.1	6.4	(s)	4.7	44.8	0.0	1.7	0.1	0.0	0.2
	Arizona	8.4	454.0	29.9	2.8	13.2	69.7	0.0	4.6	120.2	31.9	5.3	1.6	7.5	0.4
	Arkansas	12.1	389.1	20.7	2.0	1.1	35.6	0.0	4.6	63.9	14.3	3.5	0.0	3.7	0.5
	California Colorado	1.3 12.4	2,058.9 503.2	97.8 27.2	15.6 5.2	82.9 13.0	316.4 60.0	29.0 0.0	86.4 5.9	628.1 111.3	17.6 0.0	17.6 1.3	14.6 16.9	33.9 5.6	6.7 0.1
	Connecticut	0.0	298.3	18.1	5.2 2.7	13.0	34.7	0.5	2.3	59.9	16.5	0.3	(s)	3.7	0.1
	Delaware	0.0	86.8	2.8	1.3	1.7	11.4	0.5	2.3 4.3	21.6	0.0	0.0	(s)	1.2	(s)
	Dist. of Col.	0.0	29.2	0.6	(s)	0.0	2.3	0.0	4.3 0.5	3.5	0.0	0.0	0.0	0.2	(s) (s)
	Florida	7.3	1.619.2	57.6	(s) 5.2	55.0	217.2	11.4	9.8	356.2	30.8	0.2	0.0	21.9	0.5
	Georgia	9.1	789.9	38.8	5.2	23.5	109.0	1.3	7.4	185.2	34.1	3.2	0.0	11.0	0.3
	Hawaii	0.4	3.0	5.1	1.0	15.6	9.8	10.2	1.8	43.4 37.1	0.0	0.1	0.6	1.1	0.1
	daho	0.1	138.6	12.7	2.1	1.8	19.4	(s) 0.2	1.2	37.1	0.0	8.4	2.4	1.8	0.1
	Ilinois	27.3	1,102.6	48.6	23.3	27.2	98.2		29.7	227.1	98.9	0.1	23.5	10.3	3.9
	ndiana	31.9 13.0	871.3 438.1	38.4 26.5	5.8 21.4	3.9 1.1	71.3 38.4	0.4	15.8 3.6	135.6 91.0	0.0	0.4 1.0	10.0 45.8	7.3 4.5	0.9 1.6
	owa Kansas	13.0	308.6	23.2	3.2	1.1	28.8	(s) 0.5	3.6 8.8	66.0	9.0	1.0 (e)	45.6 29.7	2.8	0.6
	Kentucky	23.4	384.2	26.6	12.6	15.4	50.9	(2)	10.0	115.5	0.0	(s) 4.5	0.0	5.2	0.6
	Louisiana	5.6	2,035.0	32.8	200.7	3.6	50.6	(s) 6.9	94.7	389.4	16.2	0.9	0.0	5.3	0.8
	Maine	0.1	60.0	11.6	3.7	0.7	15.0	0.8	1.1	32.9	0.0	3.1	2.7	1.5	0.1
	Maryland	2.5	298.9	16.2	3.2	6.2	53.6	0.2	3.1	82.5	14.8	1.8	0.5	5.7	0.1
	Massachusetts	0.0	419.9	26.6	3.3	10.8	58.4	0.7	3.7	103.5	0.0	0.9	0.2	6.3	0.2
	Michigan	21.6	1,029.5	28.0	12.6	7.7	102.1	0.9	14.4	165.8	26.0	1.4	9.2	10.3	0.7
	Minnesota	10.5	506.5	26.4	11.9	7.3	56.9	(s)	13.3	115.9	14.7	1.0	15.1	7.2	3.0
	Mississippi	5.0	604.6	21.1	2.8	1.3	39.9	0.4	8.9	74.4	8.6	0.0	0.0	4.2	0.5
	Missouri Montana	31.9 7.6	315.6 89.4	30.1 9.1	7.3 3.5	4.7 1.2	75.2 13.0	(s) 0.0	4.4 6.8	121.6 33.6	8.9 0.0	1.4 9.9	7.5 4.0	7.5 1.2	0.7
	Vebraska	12.9	188.3	19.5	2.5	1.1	21.2	(s)	1.7	46.1	5.6	1.1	12.6	2.1	(s) 0.5
	Vevada	1.8	290.1	12.6	1.4	13.6	29.0	0.0	2.0	58.7	0.0	1.7	0.3	3.1	0.3
	New Hampshire	0.1	58.1	7.8	4.5	0.8	16.1	0.4	0.8	30.3	10.9	1.2	0.5	1.7	0.1
	New Jersey	0.2	727.4	27.1	6.1	17.4	82.1	4.2	13.1	150.1	28.3	(s) 0.1	(s)	8.8	0.2
	New Mexico	7.4	292.9	19.1	2.1	1.5	22.9	0.0	3.6	49.2	0.0	0.1	14.4	2.4	0.3
	New York	0.2	1,359.9	66.5	10.2	42.3	122.0	5.2	10.0	256.3	26.8	27.4	4.6	12.7	2.0
	North Carolina	6.4	724.7	33.8	9.1	14.9	117.0	0.1	6.8	181.7	42.6	4.7	0.5	11.8	0.3
	North Dakota	27.0 21.3	187.7	16.2	2.9	0.8	9.6	0.0 0.4	2.8	32.3	0.0	1.8	16.2	1.0	0.4
	Ohio Oklahoma	6.1	1,336.0 757.1	48.3 30.8	11.1 3.4	9.3 8.0	110.4 44.7	0.4	23.5 12.0	203.0 99.3	16.8 0.0	0.5 1.8	3.2 37.6	11.1 4.4	1.2 0.7
	Oregon	(s)	279.2	18.0	2.6	4.9	34.8	0.4	4.8	65.2	0.0	31.3	8.1	3.7	2.0
	Pennsylvania	20.6	1,868.8	61.5	31.4	10.0	105.6	0.4	16.2	224.9	76.2	2.7	3.6	10.8	1.2
	Rhode Island	0.0	91.1	4.9	0.7	0.4	8.4		1.1	15.4	0.0	(s)	0.2	0.9	(s)
	South Carolina	6.2	350.7	22.9	2.6	3.1	64.1	(s) 1.8	3.9	98.5	54.4	(s) 2.2	0.0	6.5	(s) 0.2
	South Dakota	1.5	95.9	8.0	1.9	0.7	11.5	(s)	1.2	23.4	0.0	4.3	10.3	1.2	0.2
	Tennessee	9.4	427.6	31.3	3.1	15.1	80.4	(s)	9.1	139.0	35.6	9.2	(s)	8.1	0.8
	Texas	59.3	4,889.4	188.1	736.4	49.8	342.1	28.9	192.1	1,537.4	41.6	0.6	114.8	36.6	4.3
	Utah Vermont	10.9 0.0	274.6	16.7	2.0 2.5	8.0 0.2	28.9 6.6	(s) (s)	5.6 0.8	61.4 14.4	0.0 0.0	0.6 1.1	0.7 0.4	2.7 0.7	0.1
	vermoni Virginia	2.9	13.5 634.9	4.3 33.5	2.5 6.4	21.6	89.8	(S) 0.6	5.7	157.6	28.2	1.1	0.4	9.4	(s) 0.3
	Washington	2.5	351.0	26.7	5.0	17.9	60.7	12.6	14.3	137.2	9.9	78.9	8.1	6.5	0.5
	West Virginia	21.6	262.3	15.0	3.9	0.2	18.3	(s)	2.4	39.8	0.0	1.6	2.0	1.8	0.5
	Visconsin	12.9	594.6	26.8	10.8	2.0	61.4	0.2	6.8	108.0	10.1	2.0	1.8	6.5	0.6
	Wyoming	22.2	163.1	14.0	1.6	0.4	7.6	0.0	3.4	26.8	0.0	0.7	9.8	0.7	0.1
	United States	515.5	32,261.8	1,469.3	1,225.4	569.3	3,215.6	120.2	703.8	7,303.7	771.5	254.8	434.3	333.9	39.5

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Includes biodiesel and renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
 e Includes fuel ethanol blended into motor gasoline.
 f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum."

products" category. See Technical Notes, Section 4.

<sup>9</sup> U.S. total includes other biofuels product supplied not allocated to the states.

h Conventional hydroelectric power. Excludes hydroelectric pumped-storage.
i Includes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.
Where shown, (s) = Value less than 0.05.
Note: Totals may not equal sum of components due to independent rounding.
Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.
http://www.eia.gov/state/seds/

Table C3. Primary energy consumption estimates, 2022 (trillion Btu)

Natural gas excluding gaseous fuels   Distillate   State   Coal   Supplemental gaseous fuels   Distillate   State   State   State   State   Distillate   State   Sta	_					Fos	sil fuels						Fossil fuels (as commingled)	
State   Coal   Stat							Petroleum						(	
Alaska 18.6 437.9 69.8 1.3 119.9 32.3 (s) 29.6 252.4 709.0 437.9 70.4 Alazona 154.0 488.0 717.0 10.9 74.8 325.9 0.0 28.9 60.0 12.1 460.0 17.4 Alazona 154.0 488.0 717.0 10.9 74.8 325.9 0.0 28.9 60.0 12.1 460.0 17.4 Alazona 154.0 488.0 717.0 10.9 74.8 325.9 0.0 28.9 60.0 12.1 460.0 17.4 Alazona 154.0 488.0 717.0 10.9 74.8 325.9 0.0 28.9 60.0 12.1 460.0 17.4 Alazona 154.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12	State	Coal	excluding supplemental	fuel oil excluding	HGL b	Jet fuel <sup>c</sup>	gasoline excluding		Other <sup>d,e</sup>	Total <sup>e</sup>	Total <sup>e,f</sup>	including supplemental	fuel oil including	Motor gasoline including fuel ethanol <sup>a</sup>
Alsaka 18.6 437.9 68.8 1.3 119.9 32.3 (s) 22.6 252.4 709.0 437.9 70.4 Alzona 154.0 488.0 170.0 170.9 74.6 325.9 0.0 285.9 600.0 12.31 468.0 170.4 Alzona 154.0 488.0 170.0 170.9 74.6 325.9 0.0 285.9 600.0 12.31 468.0 170.4 Alzona 154.0 170.0 170.9 74.6 325.9 0.0 12.31 468.0 170.4 Alzona 154.0 170.0 170.9 74.6 325.9 0.0 12.31 468.0 170.4 Alzona 154.0 170	Alabama	297.7	787.2	155.1	10.0	9.6	357.2	8.8	37.9	576.6	1.661.5	787.2	157.4	384.9
Arizona 154.0 488.0 170.0 10.9 74.6 325.5 0.0 28.9 600.0 1.23.1 468.0 172.4 Arizona 14.0 488.0 172.4 Arizona 15.0 40.0 10.0 10.0 10.0 10.0 10.0 10.0 10	Alaska	18.6	437.9			119.9		(s)	29.6	252.4		437.9		32.3
California 30.0 2,130.9 555.5 60.0 470.0 1,479.7 182.1 511.8 3,044.7 5,205.7 2,130.9 568.8 1,100.0 1,100.0 233.3 524.7 154.4 19.8 73.8 284.4 0.0 37.9 568.9 1,326.9 530.4 156.6 5.  Connechicul 0.3 50.7 105.6 10.2 10.1 162.0 3.8 12.2 3.8 12.3 30.1 162.0 3.8 12.2 3.2 3.2 3.8 12.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	Arizona	154.0	468.0	170.0		74.6			28.9	609.0		468.0		351.9
Colorado 233 524.7 154.4 19.8 73.8 283.4 0.0 37.9 568.9 1,326.9 50.4 156.6 Connecticut 0.0 307.2 103.6 10.2 103.6 10.2 10.1 15.2 0.3 11.5 303.3			397.7									397.7		179.8
Connecticut 0.0 307.2   103.6   10.2   10.1   162.0   3.3   14.5   303.3   10.5   307.2   104.2   Dalst of Col. 0.0   30.2   30.8   6.0   10.0   10.9   0.0   6.3   11.0   20.4   89.7   16.1   Dalst of Col. 0.0   30.2   30.8   6.0   10.0   10.9   0.0   6.3   11.0   49.1   Dalst of Col. 0.0   30.2   30.8   30.1   10.9   0.0   6.3   11.0   Dalst of Col. 0.0   30.2   30.8   30.1   10.9   0.0   6.3   Dalst of Col. 0.0   30.2   30.8   30.1   10.9   0.0   6.3   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   0.0   6.3   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   0.0   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   0.0   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   0.0   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   0.0   Dalst of Col. 0.0   812.4   220.4   20.0   20.0   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   0.0   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   220.4   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   20.0   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   20.0   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   20.0   20.0   30.0   10.9   Dalst of Col. 0.0   812.4   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   812.4   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   812.4   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   812.4   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   812.4   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   812.4   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   20.0   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   20.0   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   20.0   20.0   20.0   20.0   20.0   Dalst of Col. 0.0   20.0   20.0   20.0   20.0   20.0			2,130.9									2,130.9		1,597.6
Delaware 1.8 89.7 15.9 4.9 9.8 53.4 0.6 27.3 111.9 20.4 82.7 16.1 Polist of Col. 0.0 130.2 \$3.6 0.1 0.0 10.9 10.9 \$3.1 11.9 \$20.4 \$20.4 \$20.0 \$3.0 \$10.0 \$10.9 \$4.0 \$10.0 \$4.0 \$4.0 \$4.0 \$2.3 \$7.7 \$1.7 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0		233.3	524.7					0.0						303.0
Dist of Col. 0.0 30.2 3.6 0.1 0.0 10.9 0.0 3.3 18.0 49.1 30.2 3.7 Florida 172.0 1.6937 326.9 20.0 311.9 1.020.4 71.8 61.0 18.10.6 3.642.2 1.6857 337.9 1.7 Florida 172.0 1.6937 326.9 20.0 1330 512.2 8.0 45.9 938.6 13.81.9 91.2 22.0 1.200.1 1330 512.2 8.0 45.9 938.6 13.81.9 91.2 22.0 1.000.1 1330 512.2 8.0 45.9 938.6 13.81.9 91.2 22.0 1.000.1 1330 512.2 8.0 45.9 938.6 13.81.9 91.2 22.0 1.000.1 1330 512.2 8.0 45.9 938.6 13.81.9 91.2 91.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0			307.2							303.3		307.2		174.9
Florida 172.0 1,659.7 326.9 20.0 311.9 1,020.4 71.8 61.0 1.810.6 3,642.2 1,659.7 331.9 1,   Georgia 180.9 812.4 220.4 20.0 133.0 512.2 8.0 45.9 938.6 1,931.9 12.8 223.7   Hawaii 7.7 0.2 290. 3.9 88.3 460.6 64.0 11.1 241.9 249.7 2.7 29.2   Hawaii 7.7 0.2 190.3 3.9 88.3 460.6 64.0 11.1 241.9 249.7 2.7 29.2   Hawaii 7.7 0.2 190.5 3.9 88.3 460.6 64.0 11.1 241.9 249.7 2.7 29.2   Hawaii 7.7 1.1 3.9 2.6 3.7 7.8 1.5 2.0 1.1 3.9 2.0 1.1 3.			89.7								203.4			57.6
Georgia 180.9 812.4 220.4 220.0 133.0 512.2 8.0 45.9 938.6 1,931.9 612.8 223.7 1. Hawaii 7.7 0.2 290.3 3.9 88.3 46.0 64.0 11.1 241.9 249.7 2.7 29.2 1. Mano 1.9 141.9 72.2 8.0 10.3 91.4 (s) 7.7 182.2 333.0 141.9 73.3 141.0 73.3 141.0 72.3 141.0 72.3 141.0 72.3 141.0 72.3 141.0 72.3 141.0 72.3 141.0 72.2 8.0 10.3 91.4 (s) 7.6 182.2 333.0 141.9 73.3 141.0 73.3 141														11.8
Hawaii 7.7 0.2 29.0 3.9 88.3 46.0 64.0 11.1 241.9 249.7 2.7 29.2 lidaho 1.9 141.9 72.2 8.0 10.3 91.4 (8) 7.4 189.2 33.0 141.9 72.3 [14].9 72.3 [15].0 14].9										1,810.6				1,096.6
Idaho	Georgia	180.9	812.4				512.2			938.6	1,931.9	812.8	223.7	550.4
Indiana 719.2 913.4 218.0 22.4 22.3 334.6 2.3 99.6 696.3 2,329.0 976.6 221.2 100aa 227.9 433.7 150.8 72.8 6.4 178.2 0.1 21.3 424.5 1,086.1 467.5 152.5 Kansas 226.7 318.0 132.2 12.1 8.2 135.7 3.2 55.4 345.0 889.7 318.7 134.0 Kansas 226.7 318.0 132.2 12.1 8.2 135.7 3.2 55.4 345.0 889.7 318.7 134.0 Kansas 226.7 150.9 40.9 87.3 288.9 0.1 62.3 578.3 150.4 122.7 132.0 Louisiana 96.3 2,072.7 186.5 598.3 2.3 2.5 4.4 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5														49.7
Indiana 719.2 913.4 218.0 22.4 22.3 334.6 2.3 99.6 696.3 2,329.0 976.6 221.2 100aa 227.9 433.7 150.8 72.8 6.4 178.2 0.1 21.3 424.5 1,086.1 467.5 152.5 Kansas 226.7 318.0 132.2 12.1 8.2 135.7 3.2 55.4 345.0 889.7 318.7 134.0 Kansas 226.7 318.0 132.2 12.1 8.2 135.7 3.2 55.4 345.0 889.7 318.7 134.0 Kansas 226.7 150.9 40.9 87.3 288.9 0.1 62.3 578.3 150.4 122.7 132.0 Louisiana 96.3 2,072.7 186.5 598.3 2.3 2.5 4.4 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5		1.9	141.9			10.3		(s)	/.4		333.0	141.9	/3.3	97.8 495.8
Down   227.9   433.7   150.8   72.8   6.4   178.2   0.1   21.3   424.5   10.96.1   467.5   152.5		497.0	1,136.9	2/6.3				1.0	183.0	1,140.1			280.4	495.8
Kansas 226.7 318.0 132.2 12.1 8.2 135.7 3.2 55.4 345.0 889.7 318.7 134.0 Kentucky 523.3 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1.50.41 402.7 153.2 Louisiana 96.9 2.073.7 186.1 598.3 20.5 237.3 43.1 572.2 1.655.1 3.825.7 2.073.7 188.8 6.1 1.3 62.6 65.5 14.2 3.9 70.6 4.7 6.3 166.4 230.2 62.6 67.0 Maryland 61.3 62.6 65.5 14.2 3.9 70.6 4.7 6.3 166.4 230.2 62.6 67.0 Maryland 61.3 62.6 65.5 14.2 3.9 70.6 4.7 6.3 166.4 230.2 62.6 67.0 Maryland 61.3 62.6 65.5 14.2 3.9 70.6 4.7 6.3 166.4 230.2 62.6 67.0 Maryland 61.3 62.6 65.5 14.2 35.4 62.2 354.3 12.2 15.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0														359.9
Kentucky 523.3 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1,504.1 402.7 153.2 Louisiana 96.9 2,073.7 186.1 598.3 20.5 237.3 43.1 572.2 1,655.1 3,825.7 2,073.7 188.8 8.   Maine 1.3 62.6 66.5 14.1 3.9 70.6 4.7 6.8 166.4 230.2 62.6 67.0   Massachusetts 0.0 432.4 152.4 12.5 61.5 273.3 4.6 23.1 528.8 959.2 432.5 153.4   Massachusetts 0.0 432.4 152.4 12.5 61.5 273.3 4.6 23.1 528.8 959.2 432.5 153.4   Michigan 423.5 1,087.6 159.4 44.5 43.7 479.5 5.5 87.7 82.2 2,333.3 1,082.2 161.7 7   Minnesotta 184.5 633.9 150.4 45.9 41.8 266.9 0.2 86.2 1,276.4 8.8 20.2 121.4   Missouri 184.5 633.9 150.0 45.9 41.8 266.9 0.2 86.2 1,276.4 8.8 20.2 121.4   Missouri 185.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Vonces	227.9	433.7	100.8		0.4	1/8.2	0.1	21.3	424.5	1,080.1		13∠.3 124.0	193.8 145.5
Louisianía 96.9 2,073.7 186.1 598.3 20.5 237.3 43.1 572.2 1,855.1 3,825.7 2,073.7 188.8 Maine 1.3 62.6 66.5 14.1 3.9 70.6 4.7 6.8 166.4 230.2 62.6 67.0 Maryland 61.9 310.1 92.5 12.2 35.4 250.5 1.2 19.3 410.7 782.7 310.6 93.6 Maryland 61.9 310.1 92.5 12.2 35.4 250.5 1.2 19.3 410.7 782.7 310.6 93.6 Maryland 423.5 1,087.6 159.4 48.5 43.7 479.5 5.5 87.7 82.2 2,333.3 1,088.2 161.7 Minnesota 184.5 533.9 150.5 45.9 41.5 262.1 0.2 82.3 573.2 1,291.6 533.9 150.2 4 81.5 10.8 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5		ZZ0.7	310.U				133.7							256.9
Maine 1.3 62.6 66.5 14.1 3.9 70.6 4.7 6.8 166.4 230.2 62.6 67.0 Maryland 61.9 310.1 92.5 12.2 35.4 250.5 1.2 19.3 410.7 782.7 310.6 93.6 Massachusetts 0.0 432.4 152.4 12.5 61.5 273.3 4.6 23.1 526.8 959.2 432.5 153.4 Massachusetts 0.0 1432.4 152.4 12.5 61.5 273.3 4.6 23.1 526.8 959.2 432.5 153.4 Maryland 1.0 159.4 48.5 43.7 479.5 5.5 87.7 822.2 2.333.3 1,088.2 161.7 Minnesota 184.5 533.9 150.5 45.9 41.5 262.1 0.2 82.3 573.2 1.291.6 533.9 150.4 Mississippi 66.2 622.2 120.0 10.7 7.4 186.9 2.3 56.2 382.0 1,070.4 622.2 121.9 Mississippi 66.2 622.5 171.0 28.0 26.5 353.5 (s) 27.2 603.9 1.493.4 322.5 173.5 Minnesota 131.3 94.0 51.6 13.5 6.8 61.5 0.0 42.6 176.0 401.3 34.0 52.4 Nebraska 223.6 198.7 111.1 9.8 6.1 100.0 (s) 10.7 236.2 658.5 199.0 112.6 Nevada 35.8 302.3 71.9 5.5 77.4 135.8 0.0 12.3 302.2 640.4 302.3 72.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Jersey 6.2 755.0 154.5 23.4 98.9 383.9 26.5 82.1 768.6 1.529.8 755.0 156.5 New Mexico 138.1 302.0 106.2 8.1 8.6 107.0 0.0 230 253.9 694.0 302.0 109.9 North Carolina 163.0 747.2 191.8 350 84.5 549.5 0.7 42.8 903.4 131.3 0.30.0 10.2 2.8 1.9 1.9 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0			2 072 7											255.7 255.7
Maryland 61.9 310.1 92.5 12.2 35.4 250.5 1.2 19.3 410.7 782.7 310.6 93.6 Massachusetts 0.0 432.4 152.4 152.5 61.5 273.3 4.6 23.1 526.8 959.2 432.5 153.4 Michigan 423.5 1.087.6 159.4 48.5 43.7 479.5 5.5 87.7 822.2 2.333.3 1.088.2 161.7 Minnesota 184.5 533.9 150.5 45.9 41.5 262.1 0.2 82.3 573.2 1.291.6 533.9 152.4 Mississippi 66.2 622.2 120.0 10.7 7.4 186.9 2.3 56.2 382.0 1.070.4 622.2 121.9 Mississippi 66.9 322.5 171.0 28.0 26.5 353.5 (s) 27.2 603.9 1.493.4 322.5 173.5 Montana 131.3 94.0 51.6 13.5 6.8 61.5 0.0 42.6 176.0 401.3 94.0 52.4 Nebraska 223.6 189.7 111.1 9.8 6.1 100.0 (s) 10.7 236.2 658.5 199.0 12.6 Nevada 35.8 302.3 71.9 5.5 77.4 135.8 0.0 12.3 302.2 640.4 302.3 72.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Jersey 6.2 755.0 154.5 23.4 98.9 383.9 26.5 82.1 768.6 152.9 60.1 30.0 32.3 72.8 New Merko 138.1 302.0 108.2 8.1 8.6 107.0 0.0 2.3 25.9 694.0 302.0 109.9 New York 6.1 1.402.2 379.7 39.1 240.0 571.6 33.0 62.6 1.319.9 2.728.3 1.403.4 383.4 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1.813.6 747.2 191.8 35.0 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1.813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Okidhoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1.408.4 782.8 177.5 Okidhoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1.408.4 782.8 177.5 Okidhoma 150.9 382.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1.408.4 782.8 177.5 Okidhoma 150.0 361.2 129.9 9.9 17.7 301.2 11.5 24.5 494.2 1.006.4 361.3 131.9 Sult 1.00 24.5 17.4 11.9 85.4 377.6 0.3 56.5 70.9 1.351.6 440.0 180.3 131.9 Sult 1.00 24.5 17.8 45.6 136.5 (s) 35.6 30.4 845.3 207.0 96.5 17.4 17.9 12.9 45.5 12.6 42.5 11.5 24.5 494.2 1.006.4 361.3 131.9 Sult 1.00 24.5 17.4 11.9 85.4 377.6 0.3 56.5 70.9 1.351.6 440.0 180.3 131.9 Sult 1.00 24.5 17.4 11.9 85.4 377.6 0.3 56.5 70.9 1.351.6 440.0 180.3 131.9 Sult 1.00 24.5 17.4 11.9 85.4 377.6 0.3 56.5 70.9 1.351.6 440.0 180.3 131.9 Sult 1.00 24.5 12.6 42.5 12.6 42.5 3.8 56.5 70.9 1.351														75.9
Massachusetts 0.0 432.4 152.4 12.5 61.5 273.3 4.6 23.1 526.8 959.2 432.5 153.4 Michigan 423.5 1,087.6 159.4 48.5 43.7 479.5 5.5 87.7 822.2 2,333.3 1,088.2 163.7 Minnesota 184.5 633.9 150.5 45.9 41.5 262.1 0.2 82.3 573.2 1,291.6 533.9 152.4 Mississippi 66.2 622.2 120.0 10.7 7.4 186.9 2.3 562.3 82.0 1,070.4 622.2 121.9 Mississippi 66.2 622.5 171.0 28.0 26.5 353.5 (s) 27.2 603.9 1,483.4 322.5 173.5 Minnesota 131.3 94.0 51.6 13.5 6.8 61.5 0.0 42.6 176.0 401.3 94.0 52.4 Nebraska 223.6 198.7 111.1 9.8 6.1 100.0 (s) 10.7 236.2 668.5 199.0 112.6 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 66.1 302.2 640.4 302.3 72.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Jersey 6.2 755.0 154.5 23.4 98.9 383.9 26.5 82.1 768.6 1.52.9 8 755.0 156.5 New Mexico 138.1 302.0 108.2 8.1 8.6 107.0 0.0 23.0 253.9 694.0 302.0 109.9 New York 6.1 1,402.2 379.7 39.1 240.0 571.6 330.0 62.6 1,311.9 2,228.3 1,403.4 383.4 North Datical 363.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Datical 369.3 193.2 29.6 11.2 4.6 45.1 10.0 217.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 Orthodox 309.3 193.2 29.6 11.2 4.6 45.1 10.0 17.3 169.6 732.2 198.6 93.4 10.0 10.0 17.3 169.6 732.2 198.6 93.4 10.0 10.0 10.0 17.3 169.6 732.2 198.6 93.4 10.0 10.0 10.0 10.0 17.3 169.6 732.2 198.6 93.4 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10		61.0	310.1	00.5	19.1	3.9	250.5	1.7	10.3	100.4	782.7	310.6	07.0	270.4
Michigan 423.5 1,087.6 159.4 48.5 43.7 479.5 5.5 87.7 822.2 2,333.3 1,088.2 161.7 Minnesota 184.5 633.9 150.5 45.9 41.5 262.1 0.2 82.3 573.2 1,291.6 533.9 152.4 Mississippi 66.2 622.2 120.0 10.7 7.4 186.9 2.3 562.3 882.0 1,070.4 622.2 121.9 Missouri 566.9 322.5 171.0 28.0 26.5 863.5 (s) 27.2 603.9 1,493.4 322.5 173.5 Montana 131.3 94.0 51.6 13.5 6.8 61.5 0.0 42.6 176.0 401.3 94.0 52.4 Nebraska 223.6 198.7 111.1 9.8 6.1 100.0 (s) 10.7 236.2 658.5 199.0 112.6 New Ada 35.8 302.3 71.9 5.5 77.4 135.8 0.0 12.3 302.2 640.4 302.3 72.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Jersey 6.2 755.0 154.5 23.4 99.9 383.9 26.5 82.1 768.6 1,529.8 755.0 156.5 New Mexico 138.1 302.0 108.2 8.1 8.6 107.0 0.0 23.0 253.9 69.0 302.0 109.9 New York 6.1 1,402.2 379.7 39.1 240.0 571.6 33.0 62.6 1,319.9 2,728.3 1,403.4 383.4 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 112 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Okihoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 762.8 177.5 Okihoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 762.8 177.5 Okihoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 762.8 177.5 Okihoma 150.0 93.8 280.0 25.5 21.3 9.5 0.1 7.0 79.0 172.8 93.8 280.2 North Carolina 151.0 361.2 129.9 9.9 17.7 301.2 11.5 24.5 494.2 101.6 1,104.6 3,476.7 1,937.9 354.4 Phode 150.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 1		01.9	432.4				273.3		23.1		959.2			295.1
Minnesota 184.5 533.9 150.5 45.9 41.5 262.1 0.2 82.3 573.2 1,291.6 533.9 152.4 Mississippi 66.2 622.2 120.0 10.7 7.4 186.9 2.3 56.2 382.0 1,070.4 622.2 121.9 Mississippi 66.2 322.5 171.0 28.0 26.5 353.5 (s) 27.2 603.9 1,493.4 322.5 173.5 Mississippi 66.9 322.5 171.0 28.0 26.5 353.5 (s) 27.2 603.9 1,493.4 322.5 173.5 173.5 Mississippi 66.9 322.5 171.0 28.0 26.5 353.5 (s) 27.2 603.9 1,493.4 322.5 173.5 Mississippi 67.0 401.3 94.0 52.4 Mississippi 67.0 42.8 14.8 148.6 121.6 60.1 44.8 14.8 14.8 14.8 14.8 14.8 14.8 14		423.5	1 087 6		48.5		479.5	5.5		822.2	2 333 3	1 088 2		515.3
Mississippi         66.2         62.2         120.0         10.7         7.4         186.9         2.3         56.2         382.0         1,070.4         622.2         121.9           Missouri         566.9         322.5         171.0         280.0         26.5         353.5         (s)         27.2         603.9         1,493.4         322.5         173.5           Montana         131.3         94.0         51.6         13.5         6.8         61.5         0.0         42.6         176.0         401.3         94.0         52.4           Nevada         35.8         302.3         71.9         5.5         77.4         135.8         0.0         12.3         302.2         669.5         199.0         112.6           New Hampshire         3.9         60.1         44.5         17.1         4.3         75.5         2.5         4.8         148.6         212.6         60.1         44.8           New Hoxico         138.1         302.0         108.2         8.1         8.6         107.0         0.0         23.0         253.9         694.0         302.0         109.9           New Moxico         138.1         302.0         108.2         8.1         8.6 <th< td=""><td>Minnesota</td><td>184.5</td><td>533.9</td><td></td><td>45.9</td><td>41.5</td><td>262 1</td><td>0.0</td><td></td><td></td><td>1 291 6</td><td>533.9</td><td>152 4</td><td>287.3</td></th<>	Minnesota	184.5	533.9		45.9	41.5	262 1	0.0			1 291 6	533.9	152 4	287.3
Missouri         566.9         322.5         171.0         28.0         26.5         353.5         (s)         27.2         603.9         1,493.4         322.5         173.5           Montana         131.3         94.0         51.6         135.5         6.8         61.5         0.0         42.6         176.0         401.3         94.0         52.4           Nevada         35.8         302.3         71.9         5.5         77.4         135.8         0.0         12.3         302.2         650.5         199.0         112.6           New Hempshire         3.9         60.1         44.5         17.1         4.3         75.5         2.5         4.8         148.6         212.6         60.1         44.8           New Hew Jersey         6.2         755.0         154.5         23.4         98.9         383.9         26.5         82.1         768.6         1.529.8         755.0         156.5           New Mexico         181         302.0         108.2         81.8         8.6         107.0         0.0         23.0         253.9         694.0         302.0         109.9           New Thorico         181.1         302.0         184.8         18.6         107.0			622.2					2.3	56.2	382.0	1.070.4			201.4
Montana			322.5			26.5		(s)		603.9				379.7
Nebraska 223.6 198.7 111.1 9.8 6.1 100.0 (s) 10.7 236.2 658.5 199.0 112.6 Nevada 35.8 302.3 71.9 5.5 77.4 135.8 0.0 12.3 302.2 640.4 302.3 72.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Jersey 6.2 755.0 154.5 23.4 98.9 383.9 26.5 82.1 768.6 1,529.8 755.0 156.5 New Mexico 138.1 302.0 108.2 8.1 8.6 107.0 0.0 23.0 253.9 694.0 302.0 109.9 New York 6.1 1,402.2 379.7 39.1 240.0 571.6 33.0 62.6 1,319.9 2,728.3 1,403.4 383.4 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Oklahoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 782.8 177.5 Oregon 1.1 297.6 102.3 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 Pennsylvania 435.5 1,936.6 350.8 101.9 56.7 495.4 2.2 101.6 1,104.6 3,476.7 1,937.9 354.4 Phode Island 0.0 93.8 28.0 2.5 2.1 39.5 0.1 7.0 79.0 172.8 93.8 28.2 South Dakota 24.8 103.2 45.5 7.3 4.2 54.0 0.1 7.6 118.1 246.1 103.2 46.1 103.2 46.1 103.2 50.0 174.4 10.0 118.1 246.1 103.2 46.1 103.2 46.1 103.2 103.0 103.4 24.0 118.1 246.1 103.2 46.1 1		131.3						0.0						65.8
New Alampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 44.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 42.1 4.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 42.1 4.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 42.1 4.5 17.1 4.3 75.5 2.5 4.8 148.6 212.6 60.1 44.8 New Hampshire 3.9 60.1 42.8 18.6 60.1 7.0 0.0 0.0 23.0 253.9 694.0 302.0 109.9 New York 6.1 1,402.2 379.7 39.1 240.0 571.6 33.0 62.6 1,319.9 2,728.3 1,403.4 383.4 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Ohio 539.6 1,421.8 274.5 42.6 52.8 518.7 2.4 144.0 1,031.4 2,992.8 1,424.2 278.3 Oklahoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 782.8 177.5 Oregon 1.1 297.6 102.3 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 Pennsylvania 435.5 1,936.6 350.8 101.9 56.7 495.4 2.2 101.6 1,104.6 3,476.7 1,937.9 354.4 North Dakota 435.5 1,936.6 350.8 101.9 56.7 495.4 2.2 101.6 1,104.6 3,476.7 1,937.9 354.4 North Dakota 24.8 103.2 45.5 7.3 4.2 54.0 0.1 7.0 79.0 17.0 79.0 17.0 17.0 39.8 28.2 South Carolina 151.0 361.2 129.9 9.9 17.7 301.2 11.5 24.5 494.2 1,006.4 361.3 131.9 South Dakota 24.8 103.2 45.5 7.3 4.2 54.0 0.1 7.6 118.1 246.1 103.2 46		223.6	198.7		9.8								112.6	107.2
New Jersey 6.2 755.0 154.5 23.4 98.9 383.9 26.5 82.1 768.6 1,529.8 755.0 156.5 New Mexico 138.1 302.0 108.2 8.1 8.6 107.0 0.0 23.0 253.9 694.0 302.0 109.9 New York 6.1 1,402.2 379.7 39.1 240.0 571.6 33.0 62.6 1,319.9 2,728.3 1,403.4 383.4 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Ohio 539.6 1,421.8 274.5 42.6 52.8 518.7 2.4 144.0 1,031.4 2,992.8 1,424.2 278.3 Oklahoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 782.8 177.5 Oregon 1.1 297.6 102.3 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 Pennsylvania 435.5 1,936.6 350.8 101.9 56.7 495.4 2.2 101.6 1,104.6 3,476.7 1,937.9 354.4 Rhode Island 0.0 93.8 28.0 2.5 2.1 39.5 0.1 7.0 79.0 172.8 93.8 28.2 South Carolina 151.0 361.2 129.9 9.9 17.7 301.2 11.5 24.5 494.2 1,006.4 361.3 131.9 South Dakota 24.8 103.2 45.5 7.3 4.2 54.0 0.1 7.6 118.1 246.1 103.2 46.1 Tennessee 204.7 440.0 177.4 11.9 85.4 377.6 0.3 56.5 706.9 1,351.6 440.0 180.3 129.9 129.1 287.0 95.5 1.3 31.0 0.2 50.0 11.5 45.5 1.0 14.0 14.0 24.5 9.6 1.3 31.0 0.2 50.0 15.5 50.0 71.5 85.6 14.0 24.7 Virginia 67.7 665.9 190.7 24.5 122.6 420.5 3.8 35.8 197.0 1,530.7 666.0 193.4 Washington 42.2 381.9 151.7 19.0 101.6 284.0 79.4 89.7 723.7 1,147.8 381.9 153.9 West Virginia 536.6 284.8 85.2 15.0 1.0 86.1 (s) 15.3 202.3 1,023.8 284.8 86.4 Wissonsin 232.5 621.9 152.5 41.4 11.4 287.3 1.1 42.0 553.6 1,380.0 62.9 152.5 41.4 11.4 287.3 1.1 42.0 553.6 1,380.0 62.9 152.5 41.4 11.4 287.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 287.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 14.2 187.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 14.2 187.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 14.2 187.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 14.2 187.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 14.2 187.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 14.2 187.3 1.1 420.0 553.6 1,380.0 62.9 154.7 14.4 11.4 14.2 187.3 1.1 420.0 553.6 1,380.0 62.9 154.7 154.7 154.7 154.7 154.7 154.7 154.7 154	Nevada	35.8	302.3	71.9	5.5			0.0	12.3	302.2	640.4		72.8	146.6
New Jersey 6.2 755.0 154.5 23.4 98.9 383.9 26.5 82.1 768.6 1,529.8 755.0 156.5 New Mexico 138.1 302.0 108.2 81 8.6 107.0 0.0 23.0 253.9 694.0 302.0 109.9 New York 6.1 1,402.2 379.7 39.1 240.0 571.6 33.0 62.6 1,319.9 2,728.3 1,403.4 383.4 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Ohio 539.6 1,421.8 274.5 42.6 52.8 518.7 2.4 144.0 1,031.4 2,992.8 1,424.2 278.3 Oklahoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 782.8 177.5 Oregon 1.1 297.6 102.3 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 Pennsylvania 435.5 1,936.6 350.8 101.9 56.7 495.4 2.2 101.6 1,104.6 3,476.7 1,937.9 354.4 Pennsylvania 435.5 1,936.6 350.8 101.9 56.7 495.4 2.2 101.6 1,104.6 3,476.7 1,937.9 354.4 Pennsylvania 151.0 361.2 129.9 9.9 17.7 301.2 11.5 24.5 494.2 1,006.4 361.3 131.9 South Carolina 151.0 361.2 129.9 9.9 17.7 301.2 11.5 24.5 494.2 1,006.4 361.3 131.9 South Dakota 24.8 103.2 45.5 7.3 42.5 40.0 0.1 7.6 118.1 246.1 103.2 46.1 Tennessee 204.7 440.0 177.4 11.9 85.4 377.6 0.3 56.5 706.9 1,351.6 440.0 180.3 120.0 140.0 24.5 9.6 1.3 31.0 0.2 50.0 15.5 (s) 35.6 320.4 845.3 287.0 96.5 1.0 140.0 24.5 9.6 1.3 31.0 0.2 50.0 71.5 85.6 14.0 24.7 Virginia 67.7 665.9 190.7 24.5 122.6 420.5 3.8 35.8 197.0 1,530.7 660.0 193.4 Washington 42.2 381.9 151.7 19.0 101.6 284.0 79.4 89.7 723.7 1,147.8 381.9 153.9 West Virginia 536.6 284.8 85.2 15.0 1.0 86.1 (s) 15.3 202.3 1,023.8 284.8 86.4 Wisconsin 232.5 621.9 152.5 41.4 11.4 287.3 1.1 42.0 533.6 1,380.0 62.9 154.7 1.4 1.4 1.4 287.3 1.1 42.0 533.6 1,380.0 62.9 154.7 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4		3.9	60.1					2.5	4.8	148.6			44.8	81.5
New York 6.1 1,402.2 379.7 39.1 240.0 571.6 33.0 62.6 1,319.9 2,728.3 1,403.4 383.4 North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Ohio 599.6 1,421.8 274.5 42.6 52.8 518.7 2.4 144.0 1,031.4 2,992.8 1,424.2 278.3 54.4 144.0 1,031.4 2,992.8 1,424.2 278.3 19.2 617.8 297.6 103.8 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 103.8 103.8 282.2 20.0 162.6 1,104.6 1,104.6 3,476.7 1,937.9 354.4 1.8 1.0 1,104.6 1,		6.2	755.0	154.5		98.9		26.5	82.1	768.6	1,529.8	755.0		414.5
North Carolina 163.0 747.2 191.8 35.0 84.5 549.5 0.7 42.8 903.4 1,813.6 747.2 194.6 North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Ohio 539.6 1,421.8 274.5 42.6 52.8 518.7 2.4 144.0 1,031.4 2,992.8 1,424.2 278.3 Oklahoma 106.9 782.2 174.9 12.9 45.5 210.4 2.7 75.2 519.3 1,408.4 782.8 177.5 Oregon 1.1 297.6 102.3 10.0 28.0 162.6 0.8 22.5 19.3 1,408.4 782.8 177.5 Oregon 1.1 297.6 102.3 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 Pennsylvania 435.5 1,936.6 350.8 101.9 56.7 495.4 2.2 101.6 1,104.6 3,476.7 1,937.9 354.4 Rhode Island 0.0 93.8 28.0 2.5 2.1 39.5 0.1 7.0 79.0 172.8 93.8 28.2 South Carolina 151.0 361.2 129.9 9.9 17.7 301.2 11.5 24.5 494.2 1,006.4 361.3 131.9 South Dakota 24.8 103.2 45.5 7.3 4.2 54.0 0.1 7.6 118.1 246.1 103.2 46.1 Tennessee 204.7 440.0 177.4 11.9 85.4 377.6 0.3 56.5 706.9 1,351.6 440.0 180.3 Texas 932.6 4,977.4 1,068.8 2,299.3 282.4 1,599.7 181.6 1,154.4 6,572.7 1,282.6 4,982.3 1,084.5 1,006.4 Virginia 67.7 665.9 190.7 24.5 126.6 136.5 (s) 35.6 320.4 845.3 287.0 96.5 Vermont 0.0 14.0 24.5 9.6 1.3 31.0 0.2 5.0 71.5 85.6 14.0 24.7 Virginia 67.7 665.9 190.7 24.5 122.6 420.5 3.8 358 79.0 15.3 202.3 1,023.8 284.8 86.4 Westoriginia 536.6 284.8 85.2 15.0 1.0 86.1 (s) 15.3 202.3 1,038.0 621.9 154.7			302.0										109.9	115.6
North Dakota 369.3 193.2 92.6 11.2 4.6 45.1 0.0 17.3 169.6 732.2 198.6 93.4 Ohio 539.6 1,421.8 274.5 42.6 52.8 518.7 2.4 144.0 1,031.4 2,992.8 1,424.2 278.3 Ohio 539.6 1,421.8 274.5 42.6 52.8 518.7 2.4 144.0 1,031.4 2,992.8 1,424.2 278.3 1,408.4 782.8 177.5 0regon 10.0 1.1 297.6 102.3 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 10.0 28.0 162.6 0.8 28.2 319.2 617.8 297.6 103.8 10.0 93.8 28.0 2.5 2.1 39.5 0.1 7.0 79.0 172.8 93.8 28.2 20.0 11.5 10.0 17.0 79.0 172.8 93.8 28.2 20.0 11.5 24.5 494.2 1,006.4 361.3 131.9 20.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	New York													615.8
Ohio         539.6         1,421.8         274.5         42.6         52.8         518.7         2.4         144.0         1,031.4         2,992.8         1,424.2         278.3           Oklahoma         106.9         782.2         174.9         12.9         45.5         210.4         2.7         75.2         519.3         1,408.4         782.8         177.5         1.03.8           Oregon         1.1         297.6         102.3         10.0         28.0         162.6         0.8         28.2         319.2         617.8         297.6         103.8           Pennsylvania         435.5         1,936.6         350.8         101.9         56.7         495.4         2.2         101.6         1,104.6         3,476.7         1,937.9         354.4           Rhode Island         0.0         93.8         28.0         2.5         2.1         39.5         0.1         7.0         79.0         172.8         93.8         28.2           South Carolina         151.0         361.2         129.9         9.9         17.7         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9         282.2         50.1         17.0         79.0         172.8		163.0	747.2				549.5				1,813.6	747.2	194.6	590.5
Oklahoma         106.9         782.2         174.9         12.9         45.5         210.4         2.7         75.2         519.3         1,408.4         782.8         177.5           Oregon         1.1         297.6         102.3         10.0         28.0         162.6         0.8         28.2         319.2         617.8         297.6         103.8           Pennsylvania         435.5         1,936.6         350.8         101.9         56.7         495.4         2.2         101.6         1,104.6         3,476.7         1,937.9         354.4           Rhode Island         0.0         93.8         28.0         2.5         2.1         39.5         0.1         7.0         79.0         172.8         93.8         28.2           South Carolina         151.0         361.2         129.9         9.9         17.7         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9           South Dakota         24.8         103.2         45.5         7.3         4.2         54.0         0.1         7.6         118.1         246.1         103.2         46.1           Tennessee         204.7         440.0         177.4         11.9 <td< td=""><td></td><td></td><td>193.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>48.6</td></td<>			193.2											48.6
Oregon         1.1         297.6         102.3         10.0         28.0         162.6         0.8         28.2         319.2         617.8         297.6         103.8           Pennsylvania         435.5         1,936.6         350.8         101.9         56.7         495.4         2.2         101.6         1,104.6         3,476.7         1,937.9         354.4         354.4         354.4         354.4         355.5         1,106.6         3,476.7         1,937.9         354.4         354.4         354.4         354.4         356.5         70.0         79.0         770.8         93.8         28.2         28.2         201.6         1,046.6         3,476.7         1,937.9         354.4         354.4         356.2         370.7         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9         354.4         357.6         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9         354.4         357.6         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9         354.2         354.0         0.1         7.6         1181.1         246.1         103.2         46.1         103.2         46.1					42.6			2.4				1,424.2		557.3
Pembsylvania         435.5         1,936.6         350.8         101.9         56.7         495.4         2.2         101.6         1,104.6         3,476.7         1,937.9         354.4           South Carolina         151.0         361.2         129.9         9.9         17.7         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9         .           South Dakota         24.8         103.2         45.5         7.3         4.2         54.0         0.1         7.6         118.1         246.1         103.2         46.1           Tennessee         204.7         440.0         177.4         11.9         85.4         377.6         0.3         56.5         706.9         1,351.6         440.0         180.3           Texas         932.6         4,977.4         1,068.8         2,299.3         282.4         1,599.7         181.6         1,154.4         6,722.7         12,482.6         4,982.3         1,084.5         1,           Utah         237.9         287.0         95.1         7.8         45.6         136.5         (s)         35.6         320.4         845.3         287.0         96.5           Vermont         0.0         14.0 </td <td></td> <td></td> <td>782.2</td> <td></td> <td></td> <td></td> <td></td> <td>2.7</td> <td>75.2</td> <td></td> <td></td> <td>782.8</td> <td>177.5</td> <td>225.6</td>			782.2					2.7	75.2			782.8	177.5	225.6
Rhode Island         0.0         93.8         28.0         2.5         2.1         39.5         0.1         7.0         79.0         172.8         93.8         28.2           South Carolina         151.0         361.2         129.9         9.9         17.7         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9           South Dakota         24.8         103.2         45.5         7.3         4.2         54.0         0.1         7.6         118.1         246.1         103.2         46.1           Tennessee         204.7         440.0         177.4         11.9         85.4         377.6         0.3         56.5         706.9         1,351.6         440.0         180.3           Texas         932.6         4,977.4         1,068.8         2,299.3         282.4         1,599.7         181.6         1,154.4         6,572.7         12,482.6         4,982.3         1,084.5         1,           Utah         237.9         287.0         95.1         7.8         45.6         136.5         (s)         35.6         320.4         845.3         287.0         96.5           Vermont         0.0         14.0         24.5         9.								0.8	28.2	319.2		297.6		175.5
South Carolina         151.0         361.2         129.9         9.9         17.7         301.2         11.5         24.5         494.2         1,006.4         361.3         131.9           South Dakota         24.8         103.2         45.5         7.3         4.2         54.0         0.1         7.6         118.1         246.1         103.2         46.1           Tennessee         204.7         440.0         177.4         11.9         85.4         377.6         0.3         56.5         706.9         1,351.6         440.0         180.3         46.1           Texas         932.6         4,977.4         1,068.8         2,299.3         282.4         1,599.7         181.6         1,154.4         6,572.7         12,482.6         4,982.3         1,084.5         1,           Utah         237.9         287.0         95.1         7.8         45.6         136.5         (s)         35.6         320.4         845.3         287.0         96.5           Vermont         0.0         14.0         24.5         9.6         1.3         31.0         0.2         5.0         71.5         85.6         14.0         24.7           Virginia         67.7         665.9         190.7			1,936.6						101.6					533.0
South Dakota         24.8         103.2         45.5         7.3         4.2         54.0         0.1         7.6         118.1         246.1         103.2         46.1           Tennessee         204.7         440.0         177.4         11.9         85.4         377.6         0.3         56.5         706.9         1,351.6         440.0         180.3           Texas         932.6         4,977.4         1,068.8         2,299.3         282.4         1,599.7         181.6         1,54.4         6,572.7         12,482.6         4,982.3         1,084.5         1,           Utah         237.9         287.0         95.1         7.8         45.6         136.5         (s)         35.6         320.4         845.3         287.0         96.5           Vermont         0.0         14.0         24.5         9.6         1.3         31.0         0.2         5.0         71.5         85.6         14.0         24.7           Virginia         67.7         665.9         190.7         24.5         122.6         420.5         3.8         35.8         797.0         1,530.7         666.0         193.4           Washington         42.2         381.9         151.7         19.0														42.6
Tennessee 204.7 440.0 177.4 11.9 85.4 377.6 0.3 56.5 706.9 1,351.6 440.0 180.3 7.6 7.2 7.2 83.6 4.977.4 1,068.8 2,299.3 282.4 1,599.7 181.6 1,154.4 6,572.7 12,482.6 4,982.3 1,084.5 1, 1,041.4 1.4 1.4 287.3 1.0 0.2 5.0 71.5 85.6 140.0 183.4 140.0 180.3 1,084.5 1, 1,041.4 11.4 11.4 187.3 1.1 142.0 533.6 1,088.0 621.9 154.7 1							301.2	11.5						323.7
Texas 932.6 4,977.4 1,068.8 2,299.3 282.4 1,599.7 181.6 1,154.4 6,572.7 12,482.6 4,982.3 1,084.5 1, Utah 237.9 287.0 95.1 7.8 45.6 136.5 (s) 35.6 320.4 845.3 287.0 96.5 Vermont 0.0 14.0 24.5 9.6 1.3 31.0 0.2 5.0 71.5 85.6 14.0 24.7 Virginia 67.7 665.9 190.7 24.5 122.6 420.5 3.8 35.8 797.0 1,530.7 666.0 193.4 Washington 42.2 381.9 151.7 19.0 101.6 284.0 79.4 89.7 723.7 1,147.8 381.9 153.9 West Virginia 536.6 284.8 85.2 15.0 1.0 86.1 (s) 15.3 202.3 1,023.8 284.8 86.4 Wisconsin 232.5 621.9 152.5 41.4 11.4 287.3 1.1 42.0 533.6 1,388.0 621.9 154.7														58.2
Utah     237.9     287.0     95.1     7.8     45.6     136.5     (s)     35.6     320.4     845.3     287.0     96.5       Vermont     0.0     14.0     24.5     9.6     1.3     31.0     0.2     5.0     71.5     85.6     14.0     24.7       Virginia     67.7     665.9     190.7     24.5     122.6     420.5     3.8     35.8     797.0     1,530.7     666.0     193.4       Washington     42.2     381.9     151.7     19.0     101.6     284.0     79.4     89.7     723.7     1,147.8     381.9     153.9       West Virginia     536.6     284.8     85.2     15.0     1.0     86.1     (s)     15.3     202.3     1,023.8     284.8     86.4       Wisconsin     232.5     621.9     152.5     41.4     11.4     287.3     1.1     42.0     533.6     1,388.0     621.9     154.7		204.7	440.0			85.4		0.3				440.0	180.3	405.7 1,727.2
Virginia     67.7     665.9     190.7     24.5     122.6     420.5     3.8     35.8     797.0     1,530.7     666.0     193.4       Washington     42.2     381.9     151.7     19.0     101.6     284.0     79.4     89.7     723.7     1,147.8     381.9     153.9     153.9       West Virginia     536.6     284.8     85.2     15.0     1.0     86.1     (s)     15.3     202.3     1,023.8     284.8     86.4       Wisconsin     232.5     621.9     152.5     41.4     11.4     287.3     1.1     42.0     533.6     1,388.0     621.9     154.7								181.6		0,072.7				1,727.2
Virginia     67.7     665.9     190.7     24.5     122.6     420.5     3.8     35.8     797.0     1,530.7     666.0     193.4       Washington     42.2     381.9     151.7     19.0     101.6     284.0     79.4     89.7     723.7     1,147.8     381.9     153.9     153.9       West Virginia     536.6     284.8     85.2     15.0     1.0     86.1     (s)     15.3     202.3     1,023.8     284.8     86.4       Wisconsin     232.5     621.9     152.5     41.4     11.4     287.3     1.1     42.0     533.6     1,388.0     621.9     154.7								(S)						33.3 33.3
Washington     42.2     381.9     151.7     19.0     101.6     284.0     79.4     89.7     723.7     1,147.8     381.9     153.9       Wisconsin     536.6     284.8     85.2     15.0     1.0     86.1     (s)     15.3     202.3     1,023.8     284.8     86.4       Wisconsin     232.5     621.9     152.5     41.4     11.4     287.3     1.1     42.0     533.6     1,388.0     621.9     154.7		0.0 67.7	14.U 665.0					0.Z			00.0 1 530 7			453.2
West Virginia         536.6         284.8         85.2         15.0         1.0         86.1         (s)         15.3         202.3         1,023.8         284.8         86.4           Wisconsin         232.5         621.9         152.5         41.4         11.4         287.3         1.1         42.0         533.6         1,388.0         621.9         154.7		42.2	201.0											306.6
Wisconsin 232.5 621.9 152.5 41.4 11.4 287.3 1.1 42.0 533.6 1,388.0 621.9 154.7 Wyoming 390.3 172.5 79.6 6.0 2.0 35.7 0.0 21.4 144.5 707.3 172.5 80.5		536.6								202 3				92.5
Wyoming 390.3 172.5 79.6 6.0 2.0 35.7 0.0 21.4 144.5 707.3 172.5 80.5		232.5						(5)						310.0
		390.3	172.5			2.0		0.0		144 5			80.5	38.2
United States 9,885.7 33,334.1 8,357.9 3,957.4 3,227.9 15,073.0 755.9 4,296.2 35,331.9 78,495.9 33,410.9 8,470.7 16,	, 0													16,235.6

 <sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 <sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 <sup>c</sup> Includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
 <sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

U.S. total includes other biofuels product supplied not allocated to the states.
 U.S. total includes -55.8 trillion Btu of net imports of coal coke that are not allocated to the states.
 Where shown, (s) = Value less than 0.05 trillion Btu.
 Note: Totals may not equal sum of components due to independent rounding.
 Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C3. Primary energy consumption estimates, 2022 (continued) (trillion Btu)

						Rer	newable energy								
	Nuclear electric	Hydro- electric	Wood and	Fuel	Bio	omass Renewable	Losses and co-		Geo-				Net interstate flow of	Electricity net	
State	power	power <sup>g</sup>	waste h	ethanol i	Biodiesel	diesel	products j	Total <sup>k</sup>	thermal	Solar	Wind	Total <sup>k</sup>	electricity m	imports <sup>n</sup>	Total f,k
Alabama	441.3	34.8	163.4	27.6	3.4	0.0	(s)	194.4	0.1	3.2	0.0	232.5	-433.0	0.0	1,902.4
Alaska	0.0	5.8	7.7	0.0	0.9	0.0	Ò.Ó	8.5	0.2	0.1	0.5	15.1	0.0	0.0	724.1
Arizona	333.1	18.1	9.4	26.0	2.2	0.0	0.0	37.6	0.3	41.1	5.3	102.4	-139.7	(s)	1,526.9
Arkansas	149.4	11.8	56.7	12.9 117.9	2.6	0.0	0.1	72.2	0.8	3.4	0.0	88.2	-120.0	0.0	1,052.5
California Colorado	183.5 0.0	60.2 4.6	123.1 16.7	117.9	35.9 0.6	217.3 0.0	4.4 8.0	498.6 44.9	40.3 0.8	232.9 13.2	49.9 57.7	882.0 121.1	600.4 16.0	10.9 0.0	6,882.4 1.464.0
Connecticut	171.7	1.1	18.2	12.9	0.8	0.0	(s)	31.9		6.0		39.0	-113.6	0.0	707.6
Delaware	0.0	0.0	1.6	4.3	0.0	0.0	0.0	6.0	(s) 0.4	0.0	(s) (s) 0.0	7.2	64.2	0.0	274.8
Dist. of Col.	0.0	0.0	1.0	0.9	(s)	0.0	0.0	1.9	(s)	0.7	0.0	2.6	90.3	0.0	141.0
Florida	320.9	0.8	136.5	76.2	2.5	0.0	0.0	215.1	10.1	74.8	0.0	300.7	61.2	0.0	4,325.0
Georgia	355.4	10.8	210.4	38.2	1.7	0.0	(s)	250.3	0.3	25.3	0.0	286.8	262.2	0.0	2,836.2
Hawaii	0.0	0.4	4.6	3.7	0.7	0.0	(s)	9.0	0.7	8.4	2.1	20.6	0.0	0.0	270.3
Idaho	0.0	28.5	35.1	6.3	0.3	0.0	3.4	45.1	1.8	2.5	8.3	86.2	99.8	0.0	519.0
Illinois	1,031.1	0.4	16.6	35.8 25.3	20.8	0.0	78.5	151.8	2.0	10.8	80.2	245.1 170.3	-374.6	0.0	3,675.6
Indiana Iowa	0.0 0.0	1.3 3.4	31.7 19.4	25.3 15.6	4.9 8.6	0.0 0.0	63.6 211.0	125.5 254.6	4.6 1.3	4.8 2.4	34.1 156.1	417.9	119.6 -80.7	0.0 0.0	2,618.9 1.423.2
Kansas	93.7	0.1	6.7	9.8	3.0	0.0	30.2	49.6	1.0	0.6	101.3	152.5	-135.2	0.0	1,000.7
Kentucky	0.0	15.5	38.8	18.1	3.4	0.0	2.0	62.2	2.7	0.6	0.0	81.0	88.1	0.0	1,673.2
Louisiana	168.6	3.1	104.4	18.4	4.0	0.0	0.0	126.8	1.8	1.7	0.0	133.5	118.2	0.0	4,246.0
Maine	0.0	10.5	73.4	5.3	0.5	0.0	(s)	79.2	0.1	2.8	9.3	101.8	-3.2	6.5	335.3
Maryland	154.5	6.1	12.2	19.9	0.7	0.0	0.Ó	32.7	0.6	6.9	1.7	48.0	217.6	0.0	1,202.8
Massachusetts	0.0	3.0	29.0	21.8	1.1	0.0	(s)	51.9	0.9	18.6	0.7	75.1	280.9	0.0	1,315.2
Michigan	271.3	4.7	98.0	35.8	3.6	0.0	17.4	154.9	5.2	4.3	31.2	200.3	-104.0	6.0	2,706.8
Minnesota	153.3	3.2	56.9	25.2	15.9	0.0	69.0	167.0 62.5	1.1	7.5	51.5	230.4	69.2	15.5	1,759.9
Mississippi Missouri	89.7 92.6	0.0 4.7	45.4 22.4	14.5 26.2	2.6 3.9	0.0 0.0	(s) 16.3	68.7	1.0 0.4	1.8 2.4	0.0 25.7	65.3 101.8	-125.6 45.7	0.0 0.0	1,099.8 1,733.4
Montana	0.0	33.7	16.1	4.3	(s)	0.0	0.0	20.4	0.4	0.3	13.7	68.5	-70.6	-3.9	395.3
Nebraska	58.6	3.6	4.2	7.2	2.5	0.0	106.5	120.4	1.2	0.4	43.0	168.6	-39.3	0.0	846.4
Nevada	0.0	5.8	3.1	10.8	1.1	0.0	0.0	15.0	14.9	36.6	1.1	73.3	-7.6	0.0	706.1
New Hampshire	113.9	4.1	27.0	5.9	0.3	0.0	(s) 0.0	33.3	(s) 0.5	0.9	1.6	40.0 65.0	-69.2	0.0	297.2
New Jersey	295.3	(s)	14.9	30.6	1.2	0.0		46.6		17.8	0.1	65.0	124.2	0.0	2,014.4
New Mexico	0.0	0.4	12.6	8.5	1.8	0.0	0.0	22.9	0.5	9.0	49.3	82.0	-88.5	0.0	687.6
New York	279.6	93.6	83.4	44.2	10.5	0.0	3.0	141.0	1.2	19.3	15.6	270.7	132.4	41.7	3,452.7
North Carolina North Dakota	444.7 0.0	16.0 6.1	90.2 2.0	41.0 3.6	1.4 2.1	0.0 0.0	(s) 27.6	132.6 35.2	1.0 1.0	40.7 (s)	1.9 55.4	192.2 97.8	118.3 -176.0	0.0 16.6	2,568.8 670.6
Ohio	175.5	1.7	44.8	38.7	6.2	0.0	34.5	124.2	3.4	4.5	10.8	144.6	190.3	0.0	3,503.2
Oklahoma	0.0	6.0	34.6	15.2	4.0	0.0	0.1	53.8	(s)	0.6	128.1	188.6	-70.6	0.0	1,526.4
Oregon	0.0	106.8	70.5	13.0	10.5	7.4	1.4	102.8	1.8	8.3	27.8	247.5	-8.1	0.0	857.3
Pennsylvania	794.3	9.1	106.7	37.5	6.6	0.0	6.3	157.1	2.2	4.3	12.2	184.8	-719.0	0.0	3,736.9
Rhode Island	0.0	(s)	3.7	3.1	0.2	0.0	(s)	7.0	0.1	3.1	0.7	10.9	2.9	0.0	186.6
South Carolina	567.0	7.4	101.4	22.5	1.0	0.0	0.0	124.9	0.6	10.1	0.0	143.1	-93.1	0.0	1,623.4
South Dakota	0.0	14.5	3.9	4.3	1.0	0.0	69.3	78.5	1.9	(s) 2.6	35.1	130.0	-17.8	0.0	358.4
Tennessee	371.6 433.9	31.4 2.1	38.2 89.6	28.1 127.5	4.0 23.2	0.0 0.0	8.6	78.9 259.1	0.2 2.5	2.6 87.4	0.1 391.7	113.1 742.8	265.5 133.3	0.0 -12.0	2,101.8 13,780.6
Texas Utah	433.9	2.1	4.2	9.4	23.2	0.0	18.8 0.0	259.1 14.0	2.5	15.9	2.5	36.7	-33.3	-12.0	848.7
Vermont	0.0	3.9	21.3	2.3	0.4	0.0	0.0	23.8		1.5	2.5 1.4	30.6	-33.3 -38.2	46.8	124.8
Virginia	294.1	3.9	107.9	32.7	1.4	0.0	(s)	142.1	(s) 1.7	17.7	0.2	165.5	437.6	0.0	2,427.8
Washington	102.7	269.3	100.8	22.6	2.9	0.0	0.1	126.4	1.1	1.8	27.5	426.1	-117.7	12.5	1,571.4
West Virginia	0.0	5.6	10.8	6.4	0.6	0.0	0.0	17.8	(s) 0.6	0.2	6.8	30.5	-218.8	0.0	835.5
Wisconsin	105.1	6.8	88.0	22.7	3.4	0.0	28.1	142.3	0.6	3.8	6.2	159.7	115.8	0.0	1,768.6
Wyoming	0.0	2.5	5.3	2.5	0.3	0.0	0.0	8.1	0.7	0.7	33.4	45.4	-256.5	0.0	496.2
United States	8,046.4	869.3	2,424.0	1,162.7	211.6	224.7	808.2	4,856.7	118.4	764.6	1,481.8	8,090.8	0.0	140.6	94,773.7

Conventional hydroelectric power. Excludes hydroelectric pumped-storage.
 Wood, wood-derived fuels, and biomass waste.

<sup>&</sup>lt;sup>1</sup> Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. <sup>1</sup> Losses and co-products from the production of biodiesel and fuel ethanol.

U.S. total includes other biofuels not allocated to the states.

Solar thermal and photovoltaic energy.

Solar thermal and photovoltaic energy.

Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during

the year.

<sup>n</sup> Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

Where shown, (s) = Value less than +0.05 and greater than -0.05 trillion Btu. Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C4. Total end-use sector energy consumption estimates, 2022 (trillion Btu)

						Petroleum					Bio	mass						
State	Coal	Natural gas <sup>a</sup>	Distillate fuel oil b	HGL <sup>c</sup>	Jet fuel d	Motor gasoline <sup>e</sup>	Residual fuel oil	Other f,g	Total <sup>g</sup>	Hydro- electric power h	Wood and waste <sup>i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal	Solar <sup>k</sup>	Electricity	End use <sup>g,m,n</sup>	Electrical system energy losses °	Total <sup>g,m,n</sup>
Alabama	33.1	318.8	156.9	10.0	9.6	384.9	8.8	37.9	608.2	0.0	162.9	(s)	0.1	0.1	296.9	1,420.3	483.0	1,903.3
Alaska	7.3	411.1	65.8	1.3	119.9	32.3	(s)	29.6	248.9	0.6	7.7	0.0	0.2	0.1	20.5	696.3	28.0	724.3
Arizona	6.0	119.1	172.1	10.9	74.6	351.9	0.0	28.9	638.4	0.0	6.3		0.3	17.1	287.3	1,074.5	453.9 280.6	1,528.4
Arkansas California	3.2 30.0	203.3 1,462.8	118.4 563.5	7.7 60.0	6.3 470.0	179.8 1,597.6	0.0 182.1	28.9 511.8	341.0 3,384.9	0.0 (s)	56.1 65.8	0.1 4.4	0.8 2.1	0.9 101.9		772.6 5,911.5	940.4	1,053.2 6,851.9
Colorado	3.6	393.8	156.2	19.8	73.8	303.0	0.0	37.9	590.7	0.1	14.4	8.0	0.8	5.0		1,206.1	259.9	1,466.0
Connecticut	0.0	137.5	103.7	10.2	10.1	174.9	0.2	14.5	313.7	0.0	9.1	(s)		4.6		559.7	148.2	707.9
Delaware	0.0	56.9	15.2	4.9	9.8	57.6	0.3	27.3	115.2	0.0	0.9	ò.ó	(s) 0.4	0.6		213.4	61.5	274.9
Dist. of Col.	0.0	30.2	3.7	0.1	0.0	11.8	0.0	3.3	18.9	0.0	1.0		(s)	0.6		85.6	55.4	141.1
Florida	4.5	235.3	327.3	20.0	311.9	1,096.6	71.3	51.8	1,878.9	0.0	99.8		10.1	36.1	849.0	3,113.6	1,215.4	4,328.9
Georgia	6.5	367.2	221.5	20.0	133.0	550.4	8.0	45.9	978.9	(s)	184.0		0.3	1.7	494.9	2,033.3 220.2	805.5	2,838.8
Hawaii Idaho	0.0 1.9	2.7 108.5	15.5 73.3	3.9 8.0	88.3 10.3	49.7 97.8	10.7	11.1 7.4	179.1 196.7	0.2	3.3 33.3	(8)	(s) 1.5	6.6 0.6		435.4	50.0 84.5	270.3 519.9
Illinois	69.9	1.000.9	279.9	77.8	154.2	495.8	(s) 1.0	183.0	1,191.7	0.0	12.1	78.5	2.0	5.5		2,813.0	858.2	3,671.1
Indiana	139.2	671.9	219.9	22.4	22.3	359.9	2.3	99.6	726.4	(s)	28.2		4.6	1.1	341.4	1,974.0	646.1	2,620.1
Iowa	44.4	408.6	151.2	72.8	6.4	193.8	0.1	21.3	445.6	ò.ó	17.8	211.0	1.3	1.1	184.9	1,285.3	136.2	1,421.5
Kansas	1.8	287.5	132.7	12.1	8.2	145.5	3.2	55.4	357.0	0.0	6.0		1.0	0.3		826.4	174.9	1,001.3
Kentucky	20.7	261.4	152.0	40.9	87.3	256.9	0.1	62.1	599.2	0.0	37.5		2.7	0.4		1,181.0	493.1	1,674.1
Louisiana Maine	5.0 0.0	1,700.4 36.5	188.7 66.9	598.3 14.1	20.5 3.9	255.7 75.9	43.1 1.7	537.7 6.8	1,644.0 169.3	0.0 0.3	103.1 54.4	0.0	1.8 0.1	1.0 1.3		3,779.9 302.4	467.2 33.2	4,247.1 335.6
Maryland	9.4	209.9	92.2	12.2	35.4	270.4	0.7	19.3	430.1	0.0	6.4	(s) 0.0	0.1	4.6		864.3	339.3	1,203.7
Massachusetts	0.0	313.6	149.5	12.5	61.5	295.1	1.6	23.1	543.3	(s)	20.7	(s)	0.9	12.0		1,064.5	251.2	1,315.7
Michigan	47.1	750.5	160.6	48.5	43.7	515.3	5.4	68.0	841.6	(s)	75.9	17.4	5.2	1.3	343.4	2,082.0	625.6	2,707.6
Minnesota	16.4	463.1	151.8	45.9	41.5		0.2	82.3	609.0	0.2	48.0	69.0	1.1	1.0		1,435.4	319.9	1,755.2
Mississippi	2.0	232.9	121.8	10.7	7.4	201.4	2.3	56.2	399.8	0.0	45.3		1.0	0.1	167.1	848.2	252.4	1,100.5
Missouri	19.2	244.3 85.9	171.3 52.2	28.0	26.5 6.8	379.7	(s) 0.0	27.2 35.3	632.7 173.5	0.0	21.7 16.0	16.3 0.0	0.4	1.8		1,210.2	524.1 62.3	1,734.3 396.0
Montana Nebraska	4.6 17.1	185.6	112.1	13.5 9.8	6.1	65.8 107.2	(s)	10.7	245.9	0.0	3.3	106.5	0.3 1.2	0.2 0.2		333.7 674.9	171.9	396.0 846.8
Nevada	4.9	107.4	72.7	5.5	77.4	146.6	0.0	12.3	314.5	0.0	2.4		1.5	6.0		570.9	135.7	706.6
New Hampshire	0.0	27.1	42.3	17.1	4.3	81.5	1.3	4.8	151.3	0.0	15.2		(s) 0.5	0.9		231.4	65.9	297.4
New Jersey	0.0	495.9	155.6	23.4	98.9	414.5	26.5	82.1	801.0	0.0	10.0	Ô.Ó		13.2	254.0	1,574.5	441.3	2,015.8
New Mexico	1.5	209.6	109.7	8.1	8.6	115.6	0.0	23.0	265.0	0.0	12.3		0.4	2.2		583.6	104.9	688.6
New York	6.1	912.9 269.1	377.3	39.1	240.0	615.8	22.7	62.6	1,357.6 945.1	0.2	67.9	3.0	1.2	13.3		2,850.0	602.0	3,452.0 2.571.0
North Carolina North Dakota	11.0 85.6	184.1	191.6 93.1	35.0 11.2	84.5 4.6	590.5 48.6	0.7 0.0	42.8 17.3	174.8	(s) 0.0	80.4 2.0	(s) 27.6	1.0 1.0	2.7 (s)	475.0 86.6	1,784.3 557.3	786.7 113.2	2,571.0 670.5
Ohio	92.6	919.8	273.6	42.6	52.8	557.3	2.4	132.2	1,060.9	0.0	40.2	34.5	3.4	1.4		2,661.8	842.7	3,504.5
Oklahoma	4.5	486.4	177.1	12.9	45.5	225.6	2.7	75.2	539.1	0.0	34.2	0.1	(s)	0.3		1,301.3	226.1	1,527.4
Oregon	1.1	157.5	103.8	10.0	28.0	175.5	0.8	28.2	346.4	0.0	64.0	1.4	(s) 1.2	2.8	192.2	766.5	87.1	853.6
Pennsylvania	167.8	1,022.5	351.2	101.9	56.7	533.0	2.1	101.6	1,146.4	0.0	90.2		2.2	3.6		2,933.1	804.7	3,737.8
Rhode Island	0.0	42.1	27.6	2.5	2.1	42.6	0.1	7.0	81.9	0.0	1.5	(s)	0.1	1.8		153.3	33.5	186.7
South Carolina South Dakota	2.4 4.2	166.2 90.6	129.9 45.8	9.9 7.3	17.7 4.2	323.7 58.2	11.5 0.1	24.5 7.6	517.3 123.3	(s) 0.0	86.0 3.9	0.Ó 69.3	0.6	1.8	282.4 45.9	1,056.8 339.1	568.3 19.4	1,625.1 358.5
Tennessee	27.5	316.8	178.2	11.9	4.2 85.4	405.7	0.1	56.5	738.1	0.0	37.4	8.6	1.9 0.2	(s) 0.3	348.4	1,477.3	625.7	2,103.0
Texas	6.3	3,143.1	1,081.3	2,299.3	282.4	1,727.2	181.6	1,154.4	6,726.2	(s)	80.5		2.5	10.9		11,607.7	2,179.0	13,786.7
Utah	7.4	203.2	96.2	7.8	45.6	145.9		35.6	331.1	0.1	3.4	0.0	0.8	2.7		662.6	187.3	849.9
Vermont	0.0	14.0	24.6	9.6	1.3	33.3	(s) 0.2	5.0	74.0	0.0	15.3	0.0	(s) 1.7	0.8	18.7	122.9	2.0	124.8
Virginia	33.9	302.8	187.2	24.5	122.6	453.2	3.6	35.8	826.8	(s)	78.1	(s)		1.9		1,696.5	733.4	2,429.9
Washington	1.5	277.1	153.6	19.0	101.6	306.6	79.4	89.7	749.9	0.0	94.7	0.1	1.1	1.5		1,436.1	136.4	1,572.4
West Virginia	11.2	266.9 441.7	84.7 154.3	15.0 41.4	1.0 11.4	92.5 310.0	(s) 1.1	15.3 40.0	208.6 558.1	1.8	10.7	0.0	(s) 0.6	0.2 1.0		611.9	224.5 417.6	836.4 1,769.3
Wisconsin Wyoming	10.0 27.5	161.9	80.0	6.0	2.0	38.2	0.0	21.4	147.5	0.3	73.3 5.3	28.1 0.0	0.6	0.1	238.4 56.3	1,351.7 399.3	97.7	497.0
· · · you ming	21.5	101.3	00.0	0.0	2.0	55.2	0.0	21.4	177.5	0.0	5.5	0.0	0.7	0.1	50.5	0.09.0	57.7	737.0
United States	1,000.0	20,918.6	8,387.3	3,957.4	3,227.9	16,235.6	680.3	4,211.4	36,699.9	4.0	2,049.9	808.2	63.5	277.2	13,399.5	75,104.0	19,657.1	94,761.1

total includes -55.8 trillion Btu of net imports of coal coke that are not allocated to the states.

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Includes biodiesel and renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>Description of the local point of the states.

Description of the states.

Description of the states of the states.

Description of the states of the states.

Description of the states of the states.

Description of the states of the states of the states.

Description of the states of the states of the states.

Description of the states of the state</sup> 

Wood, wood-derived fuels, and biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>|</sup> Electricity sales to ultimate customers.
| Electricity sales to ultimate customers.
| Includes a small amount of wind energy consumed by commercial and industrial utility-scale facilities. U.S.

<sup>&</sup>lt;sup>n</sup> Adjusted for the double-counting of supplemental gaseous fuels and biofuels product supplied, which are included in natural gas, distillate fuel oil, and other petroleum products, but should be counted only once in End Use and Total.

Observation from the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.
 Where shown, (s) = Value less than 0.05 trillion Btu.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C5. Residential sector energy consumption estimates, 2022 (trillion Btu)

				Petrol	eum		Biomass					Electrical	
State	Coal a	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>©</sup>	Kerosene	Total	Wood d	Geothermal	Solar <sup>e</sup>	Electricity <sup>f</sup>	End use <sup>g</sup>	system energy losses <sup>h</sup>	Total <sup>g</sup>
Alabama	0.0	31.3	0.1	4.6	(s)	4.8	1.6	0.1	0.1	112.3	150.2	182.7	332.9
Alaska	0.0	19.9	7.1	0.4	(s)	7.5	6.0	0.1	(s)	7.0	40.4	9.6	50.0
Arizona	0.0	43.5	(s)	4.8	(s)	4.8	4.2	0.1	14.0	130.9	197.6	206.8	404.4
Arkansas	0.0	31.9	(s) 0.5	4.4	(s)	4.5	4.8	0.8	0.5	65.7	108.1	110.2	218.3
California	0.0	447.7	0.5	21.9	0.3	22.7	20.6	0.3	72.6	305.5	869.4	334.3	1,203.7
Colorado	0.0	148.9	0.1	12.0	(s)	12.2	11.7	0.3	3.7	70.3	245.1	94.3	339.4
Connecticut	0.0	52.2	53.0	6.8	(s)	59.8	4.7	(s)	3.1	45.0	164.9	70.4	235.3
Delaware	0.0	12.3	2.5	2.8	(s)	5.3	0.5	0.4	0.4	17.8	36.8	27.8	64.6
Dist. of Col.	0.0	12.3	0.6	(s)	0.0	0.6	0.0	(s)	0.4	8.6	21.9	13.6	35.6
Florida	0.0	19.3	0.1	6.6	(s)	6.1	0.2	8.0	35.2	458.0	526.9	655.7	1,182.6
Georgia	0.0	138.2	0.1	7.5	(s)	7.6	2.2	0.3	0.7	208.6	357.6	339.6	697.2
Hawaii	0.0	0.5	(s) 0.8	0.6	0.0	0.6	(s) 12.9	0.0	4.9	9.4	14.9	15.2	30.1
Idaho	0.0	36.9		6.0	(s)	6.8	12.9	0.1	0.5	34.0	91.2	32.1	123.3
Illinois	0.0	442.9	0.5	24.9	0.1	25.4	5.2	2.0	2.9	158.6	631.9	293.6	925.5
Indiana	0.0	150.8	1.2	12.0	0.1	13.4	9.9	3.8	0.5	116.2	294.1	219.9	514.1
Iowa	0.0	75.6	0.9	26.5	(s)	27.4	4.9	0.5	0.5	51.8	155.2	38.2	193.3
Kansas	0.0	67.6	(s)	8.8	(s)	8.8	3.1	0.3	0.2	49.3	129.1	60.2	189.3
Kentucky	0.0	52.4	0.6	8.5	0.1	9.3	7.3	1.9	0.3	91.6	162.7	175.7	338.4
Louisiana	0.0	36.1	(s)	1.7	(s)	1.7	0.5	0.9	1.0	107.3	147.6	154.4	302.0
Maine	0.0	3.2	26.8	6.7	1.1	34.6	17.0	0.1	0.4	17.4	72.7	14.2	86.9
Maryland	0.0	85.8	14.6	6.7	0.2	21.4	4.5	0.6	3.3	95.8	211.2	159.6	370.8
Massachusetts	0.0	135.5	70.7	7.9	0.2	78.8	7.8	0.1	4.9	68.3	295.3	98.6	393.8
Michigan	0.0	347.8	3.1	33.7	0.1	36.9	26.6	4.3	1.0	119.5	536.1	217.8	753.9
Minnesota	0.0	158.4	4.9	29.8	0.1	34.7	15.1	1.1	0.7	79.9	290.0	112.4	402.4
Mississippi	0.0	23.1	(s) 0.2	5.2	(s)	5.2	1.1	0.2	0.1	64.5	94.2	97.5	191.6
Missouri	0.0	105.8		19.7	(s)	19.9	15.2	0.4	1.2	127.1	269.5	243.1	512.6
Montana	0.0	24.5	0.4	10.0	(s)	10.5	11.9	0.1	0.1	20.1	67.2	23.6	90.8
Nebraska	0.0	41.6	0.1	5.8	(S)	5.9	1.7	0.5	0.1	37.5	87.2	55.8	143.0
Nevada	0.0	49.1 7.7	0.3	2.2 10.9	(s)	2.5 30.3	1.9	0.3	5.2	48.8	107.9 64.8	49.4	157.3
New Hampshire New Jersev	0.0 0.0	248.0	19.1 24.5	3.6	0.4	28.2	9.8 2.3	(s) 0.5	0.5 7.1	16.4 102.6	388.6	29.3 178.2	94.1 566.8
New Jersey New Mexico	0.0	37.8	24.5 (s)	5.0	(s) (s)	26.2 5.0	2.3 10.3	0.5	1.7	24.8	79.7	28.1	107.9
New York	0.0	464.2	103.6	24.2	2.2	130.0	26.1	0.4	6.6	178.2	805.2	219.6	1,024.8
North Carolina	0.0	74.1	5.5	16.7	0.7	23.0	6.8	1.0	1.7	213.1	319.7	352.9	672.6
North Dakota	0.0	14.8	0.9	6.3	(s)	7.2	0.7	0.5		18.0	40.4	23.5	63.9
Ohio	0.0	313.4	8.0	19.8	0.3	28.0	17.8	2.6	(s) 0.8	181.9	544.0	300.5	844.5
Oklahoma	0.0	63.3		8.4	(s)	8.4	3.4	(s)	0.3	86.9	162.3	82.9	245.2
Oregon	0.0	52.6	(s) 1.9	2.5	0.1	4.5	18.4	0.4	2.3	70.7	148.8	32.1	180.9
Pennsylvania	0.0	246.5	78.3	18.8	1.0	98.0	27.1	1.3	2.5	192.5	567.7	313.0	880.7
Rhode Island	0.0	18.8	13.5	1.6	(s)	15.2	1.2	0.1	0.5	10.8	46.5	14.0	60.5
South Carolina	0.0	34.5	0.5	4.1	0.1	4.8	1.3	0.6	1.3	110.2	152.6	221.7	374.4
South Dakota	0.0	15.7	0.6	4.3		4.9	1.9	0.6	(s)	18.2	41.3	7.7	49.0
Tennessee	0.0	75.8	0.3	6.7	(s) 0.2	7.2	5.8	0.2	(s) 0.1	148.8	237.9	267.2	505.1
Texas	0.0	237.1	(s)	19.3	(s)	19.3	2.2	1.6	9.4	582.1	851.4	781.9	1,633.4
Utah	0.0	82.4	0.1	2.2	(s)	2.4	2.6	0.1	2.2	38.7	128.4	63.7	192.1
Vermont	0.0	4.1	9.6	5.9	0.3	15.9	12.6	(s) 0.8	0.5	7.5	40.6	0.8	41.4
Virginia	0.0	89.0	12.4	11.6	0.4	24.4	10.1		1.6	159.4	285.2	259.1	544.3
Washington	0.0	102.3	4.1	8.1	(s)	12.2	23.1	0.4	1.3	135.7	275.0	59.7	334.6
West Virginia	0.0	27.2	1.4	2.9	0.1	4.5	8.1	(s)	0.1	38.0	78.0	75.8	153.8
Wisconsin	0.0	156.7	4.8	30.0	0.1	34.9	23.1	0.6	0.6	78.1	294.1	136.8	430.9
Wyoming	0.0	14.2	0.1	3.3	(s)	3.5	4.4	0.1	0.1	10.3	32.5	17.8	50.3
United States	0.0	5,175.7	478.6	504.3	8.5	991.4	422.5	39.6	199.7	5,149.5	11,961.7	7,572.4	19,534.1

a Data are not collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

Hydrocarbon gas liquids, assumed to be propane only.
 Wood and wood-derived fuels.

<sup>&</sup>lt;sup>e</sup> Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.

Flietricity sales to ultimate customers.

9 Adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Where shown, (s) = Value less than 0.05 trillion Btu.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C6. Commercial sector energy consumption estimates, 2022 (trillion Btu)

					Petrol	leum				Biomass					Electrical	
State	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e</sup>	Wood and waste f	Geothermal	Solar <sup>9</sup>	Electricity h	End use <sup>i</sup>	system energy losses j	Total <sup>i</sup>
Alabama	0.0	26.5	4.8	2.3	(s)	9.6	(s)	16.8	0.0	0.3		0.1	76.4	120.1	124.3	244.4
Alaska Arizona	7.3 0.0	15.8 36.8	7.5 6.0	0.8 3.3	(s)	1.0 9.9	0.Ó 0.0	9.3 19.2	0.6 0.0	1.5 0.8		(s) 3.0	8.8 107.5	43.5 167.3	12.0 169.8	55.5 337.1
Arkansas	0.0	56.2	3.2	1.2	(s) (s)	3.3	0.0	7.6	0.0	0.8		0.3		105.2	67.5	172.7
California	0.0	255.2	20.5	14.1	(s)	55.0	0.0	89.6		13.0		18.9		766.9	426.2	1,193.1
Colorado	(s)	64.6	4.9	4.5	(s)	7.9	0.0	17.2	(s) 0.1	2.2		1.2		156.6	96.4	253.0
Connecticut	0.0	56.7	9.6	2.7	(s)	4.9	0.2	17.4	0.0			1.3	39.7	116.0	62.1	178.1
Delaware	0.0	11.3	1.2	0.9	(s)	1.3	(s)	3.3	0.0	0.1	0.0	0.1	14.7	29.5	22.9	52.4
Dist. of Col.	0.0	16.0	0.6	(s) 8.0	(s)	0.4	0.0	1.0	0.0	1.0		0.2	24.9	43.1	39.5	82.6
Florida	0.0 0.0	64.8 56.9	10.6	8.0 5.0	(s)	31.1 13.1	0.0 0.0	49.8 25.6	0.0 0.0	9.3 0.4		0.8 0.2		457.3 252.2	473.1 275.1	930.4 527.4
Georgia Hawaii	0.0	2.1	7.5 1.3	3.2	(s) 0.0	1.7	0.0	6.2	0.0		(s) (s)	1.7		20.9	15.7	36.6
Idaho	0.0	23.8	2.4	1.4	(s)	2.2	0.0	6.0	0.0		0.6	(9)	23.3	56.4	22.1	78.5
Illinois	1.6	255.2	6.3	4.1	(s)	17.7	0.0	28.1	0.0			(s) 2.6	160.8	446.3	297.6	743.9
Indiana	1.3	100.7	4.1	4.0	0.1	8.7	(s)	16.9	(s)	5.2		0.6	80.2	205.2	151.7	356.9
lowa	2.0	61.9	5.2	2.6	(s)	14.6	Ò.Ó	22.9	Ò.Ó	1.6	0.7	0.6	42.5	127.8	31.3	159.1
Kansas	0.0	47.5	2.0	1.6	(s)	3.2	0.0	6.8	0.0			0.1	53.8	109.4	65.8	175.2
Kentucky	(s) 0.0	40.5	3.4	2.9	(s)	4.2	0.0	10.6	0.0			0.1	67.1	120.6	128.8	249.4
Louisiana		32.4	3.6	1.4	(s)	4.4	0.0	9.4	0.0	0.1	0.9	0.1	80.3	123.1	115.6	238.7
Maine	0.0	9.8	8.9	7.0	0.1	1.8	0.2	18.0	0.0			0.9		46.8	11.6	58.3 350.7
Maryland Massachusetts	0.0 0.0	76.8 120.2	7.5 13.2	3.3 3.8	(s) 0.1	9.3 8.1	(s) 0.1	20.2 25.3	0.0 (s)	1.3 9.6		1.1 6.7	94.3 83.4	193.6 246.1	157.0 120.4	350.7
Michigan	0.0	189.7	6.8	7.0	(s)	11.1	(s)	25.0	0.0	5.9		0.3		348.3	230.7	579.0
Minnesota	0.0	125.6	5.9	6.4	(s)	8.8	(s)	21.2	0.0			0.2		229.7	108.2	338.0
Mississippi	0.0	20.7	3.4	2.4	(s)	2.5	(s) 0.0	8.3	0.0					78.1	72.6	150.7
Missouri	0.3	67.4	4.1	4.2	(s)	7.2	0.0	15.5	0.0	3.9	0.0	(s) 0.6	101.6	189.4	194.4	383.8
Montana	(s)	28.5	0.6	2.6	(s)	0.8	0.0	4.0	0.0	2.2		(s)	17.1	52.1	20.1	72.1
Nebraska	0.0	34.6	1.8	1.4	(s)	2.0	(s)	5.2	0.0	0.5		(s) 0.6	32.8	73.9	48.9	122.7
Nevada	0.0	34.2	2.2	1.9	(s)	4.6	0.0	8.7	0.0	0.4	0.8			87.0	42.9	129.9
New Hampshire	0.0 0.0	9.7 160.0	4.7 10.3	5.9 1.5	(s) (s)	1.7 12.4	1.1	13.5 24.2	0.0 0.0	2.4 7.1	0.0 0.0	0.3 5.3		39.8 324.1	24.9 221.6	64.7 545.7
New Jersey New Mexico	0.0	28.6	10.3	1.9	(S) (S)	2.2	(s) 0.0	5.5	0.0			0.5		67.6	35.1	102.7
New York	0.0	313.6	48.7	10.2	0.2	19.3	1.2	79.6		19.5		6.6		666.2	303.5	969.8
North Carolina	0.9	60.6	7.1	8.4	(s)	32.8	(s)	48.3	(s) (s)	1.3		1.0		280.1	278.2	558.3
North Dakota	0.4	18.1	3.6	1.7	(s)	0.5	ò.ó	5.9	ò.ó	0.1	0.4	(s)	28.6	52.5	37.4	90.0
Ohio	0.0	194.4	12.2	6.6	(s)	16.7	0.0	35.5	0.0			0.5		391.6	259.8	651.4
Oklahoma	0.0	46.9	4.1	2.4	(s)	5.6	0.0	12.1	0.0		0.0	(s) 0.4	75.8	136.5	72.3	208.8
Oregon	0.0	35.0	2.4	4.0	(s)	5.0	0.0	11.5	0.0					108.2	25.8	134.0
Pennsylvania Rhode Island	0.1 0.0	173.2 11.5	18.7 2.7	8.1 0.7	0.2	15.3	(s)	42.3 4.5	0.0	8.9 0.2		0.8		353.0	206.5	559.4
South Carolina	0.0	26.8	3.0	2.9	(s) (s)	1.1 7.4	(s) 0.1	13.4	(s)	0.2		1.3 0.3	12.8 82.3	30.3 123.1	16.5 165.7	46.9 288.8
South Dakota	0.0	14.2	0.9	0.6	(s)	0.8		2.3	0.0	0.2		(9)	16.8	34.6	7.1	41.7
Tennessee	0.0	63.0	5.2	2.5	(s)	7.2	(s) 0.0	15.0	0.0	1.1	0.0	(s) 0.2	121.9	201.1	218.9	420.0
Texas	0.0	200.4	17.8	12.4	(s)	27.8	0.0	58.0	(s)	0.4	0.9	1.4		809.5	736.7	1,546.1
Utah	0.0	49.8	2.9	3.5	(s)	2.4	0.0	8.7	0.1	0.6	0.4	0.4	43.9	103.9	72.3	176.2
Vermont	0.0	7.7	3.3	3.5	(s)	0.7	0.1	7.6	0.0	2.5		0.3		24.6	0.7	25.3
Virginia	0.2	78.6	8.7	7.8	0.1	12.3	(s)	28.9	0.0		0.9	0.3		353.9	380.2	734.1
Washington	0.0	68.7	6.7	4.9	(s)	8.5	0.0	20.1	0.0		0.8	0.2		195.8	44.7	240.5
West Virginia	0.0	25.7 122.5	2.3	1.1	(s)	2.0	0.0	5.4	0.0			(s) 0.3	24.8	57.5	49.5	107.0
Wisconsin Wyoming	0.0 0.2	122.5	4.0 1.6	5.5 1.2	(s) (s)	6.2 1.9	0.0	15.8 4.8	0.0 0.0	4.8 0.8		0.3 (s)	79.9 12.3	223.5 32.4	140.0 21.4	363.5 53.7
v v y Ori iii i g	0.2	13.7	1.0	1.2	(5)	1.9	0.0	4.0	0.0	0.0	0.5	(5)	12.3	32.4	21.4	55.7
United States	14.5	3,655.1	331.6	201.6	1.3	440.0	3.2	978.2	0.9	158.1	19.7	62.8	4,745.7	9,622.3	6,923.0	16,545.2

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Hydrocarbon gas liquids, assumed to be propane only.
 c Includes fuel ethanol blended into motor gasoline.

double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

J Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

electrical system energy losses.
Where shown, (s) = Value less than 0.05 trillion Btu.

where shown, (s) = value less than 0.00 thilloh Bttl.

Notes: · Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

d includes small amounts of petroleum coke not shown separately.

Conventional hydroelectric power. Excludes hydroelectric pumped-storage.

f Wood, wood-derived fuels, and biomass waste.

g Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

h Electricity sales to ultimate customers.

Includes a small amount of wind energy consumed by commercial utility-scale facilities. Adjusted for the

Table C7. Industrial sector energy consumption estimates, 2022 (trillion Btu)

					Petrol	eum				Bio	mass						
State	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e</sup>	Wood and waste <sup>f</sup>	Losses and co- products <sup>9</sup>	Geo- thermal	Solar <sup>h</sup>	Electricity <sup>i</sup>	End use <sup>j,k</sup>	Electrical system energy losses	Total <sup>j,k</sup>
Alabama	33.1	230.3	21.7	2.9	4.6	3.8	32.7	65.6	0.0		(s)	(s)	(s)	108.2	598.3	176.0	774.3
Alaska	(s)	375.0	15.3	0.1	0.6	(s)	27.6	43.6	0.0	0.2	0.0	0.0	(s)	4.7	423.4	6.4	429.8
Arizona	6.0	20.1	29.5	2.5	9.8	0.0	23.9	65.7	0.0		0.0	0.2	0.1	48.8	142.3	77.1	219.5
Arkansas	3.2	109.5	19.9	2.1	4.0	0.0	25.4	51.4	0.0		0.1	(s) 1.2	0.1	61.3	276.0	102.8	378.9
California Colorado	30.0 3.6	708.9 170.5	74.5 26.7	23.2 3.0	31.4 6.5	0.1 0.0	283.3 34.6	412.6 70.8	0.0		4.4 8.0	0.3	10.5 0.1	162.1 51.2	1,361.9 303.7	177.4 68.8	1,539.3 372.5
Connecticut	0.0	22.3	3.1	0.5	2.0	(s)	12.8	18.3	0.0		(s)	0.0	0.1		53.9	14.8	68.7
Delaware	0.0	32.4	1.6	0.9	0.7	(s)	26.8	30.0	0.0		0.0	0.0	(s)	6.9	69.7	10.8	80.6
Dist. of Col.	0.0	0.0	0.1	(s)	0.2	0.0	3.3	3.6	0.0		0.0	0.0	0.0	0.6	4.2	1.0	5.2
Florida	4.5	127.0	38.0	5.2	24.0	1.5	40.3	109.0	0.0		0.0	0.0	0.1	60.2	391.0	86.1	477.1
Georgia	6.5	159.2	29.8	6.8	6.8	1.0	40.1	84.4	(s)	181.3	(s)	(s)	0.7	116.7	548.9	190.0	738.9
Hawaii	0.0	0.1	1.7	0.1	1.5	3.0	10.3	16.5	0.2		(s) 3.4	(s)	(s)	11.8	28.6	19.1	47.7
Idaho	1.9	40.1	12.2	0.5	3.1	(s) 1.0	6.0	21.8	0.0			0.8	0.1	32.1	117.8	30.3	148.2
Illinois	68.3	282.9	43.3	48.6	10.8		166.1	269.7	0.0		78.5	0.0	(s)	142.7	844.8	264.1	1,109.0
Indiana	137.9 42.4	408.7 262.4	33.7 44.3	6.1 43.6	5.5 4.3	0.6 0.1	93.0 13.8	138.8 106.1	0.0 0.0		63.6 211.0	0.0 0.0	(s)	144.9 90.6	905.7 704.6	274.3 66.7	1,180.0 771.3
lowa Kansas	1.8	156.6	28.6	1.7	4.3 5.0	3.2	51.8	90.3	0.0		30.2	0.0	(S)	40.0	321.0	48.9	369.9
Kentucky	20.7	141.3	19.6	29.3	2.9	0.1	57.4	109.4	0.0		2.0	0.0	(s)	98.3	400.5	188.7	589.2
Louisiana	5.0	1,345.5	28.3	594.9	4.2	3.8	532.3	1,163.5	0.0		0.0	(s)	(s)	137.0	2,753.4	197.1	2,950.5
Maine	0.0	21.6	3.9	0.3	1.2	1.1	4.6	11.1	0.3		(s)	0.6	(s)	9.1	75.3	7.4	82.7
Maryland	9.4	16.8	6.0	2.0	3.0	0.1	16.7	27.8	0.0	0.6	0.0	0.0	0.1	12.3	67.0	20.5	87.5
Massachusetts	0.0	49.1	5.0	0.7	4.2	0.1	20.0	29.9	0.0		(s)	0.0	0.5		104.1	30.7	134.8
Michigan	47.1	182.5	21.6	7.3	8.4	0.2	62.0	99.4	(s)	43.4	17.4	0.0	(s)	97.2	486.9	177.1	664.0
Minnesota	16.4	161.3	37.3	9.3	6.7	0.1	70.4	123.8	0.2		69.0	0.0	0.1	70.5	468.5	99.1	567.7
Mississippi	2.0	149.8	15.1	3.1	2.0	(s)	52.5	72.6	0.0	44.0	(s)	(s)	(s)	54.5	323.0	82.3	405.3
Missouri Montana	18.9 4.5	66.2 30.3	27.7 9.1	3.9 0.8	5.0 1.8	(s) 0.0	21.6 34.4	58.2 46.2	0.0 0.0	2.5 1.9	16.3 0.0	0.0	(s) (s)	45.2 15.9	207.4 98.9	86.4 18.7	293.8 117.6
Nebraska	17.1	103.8	27.0	2.5	3.3	0.0	7.8	40.2	0.0	1.1	106.5	0.0	(s)	45.2	314.2	67.3	381.4
Nevada	4.9	19.2	17.6	1.4	2.4	0.0	10.3	31.8	0.0		0.0	0.4	0.2	42.9	99.5	43.4	142.9
New Hampshire	0.0	9.6	2.1	0.4	1.0	0.2	3.6	7.2	0.0	2.9		0.0		6.6	26.3	11.7	38.0
New Jersey	0.0	79.7	10.7	18.1	6.9	0.0	78.2	114.0	0.0	0.6	(s) 0.0	0.0	(s) 0.7	23.0	218.0	40.0	258.1
New Mexico	1.5	130.9	12.2	1.1	3.0	0.0	20.4	36.8	0.0	0.1	0.0	0.2	(s)	36.8	206.3	41.7	248.0
New York	6.1	91.6	11.9	4.5	14.9	2.9	49.0	83.1	0.1	22.3	3.0	0.0	0.1	55.2	261.5	68.0	329.5
North Carolina	10.0	126.5	21.5	9.6	6.9	0.5	36.7	75.1	0.0		(s)	0.0	0.1	93.9	378.0	155.5	533.5
North Dakota	85.2	114.3	42.5	3.3	1.8	0.0	15.2	62.7	0.0	1.1	27.6	0.0	0.0		328.4	52.3	380.7
Ohio	92.6	353.0 330.3	34.9 28.9	15.8	8.4	2.4 2.7	123.4	184.9 108.4	0.0 0.0	18.9 29.0	34.5	0.0	0.1	170.8	854.6 546.5	282.2 70.9	1,136.8
Oklahoma Oregon	4.5 1.1	60.5	28.9 14.3	1.7 3.3	4.8 3.4	2.7 0.1	70.3 13.4	34.5	0.0		0.1 1.4	0.0 0.2	(s) 0.1	74.4 64.6	203.9	70.9 29.3	617.4 233.2
Pennsylvania	167.7	542.7	43.4	74.4	8.0	0.6	92.0	218.3	0.0		6.3	0.0	0.1		1,163.0	282.3	1.445.3
Rhode Island	0.0	8.6	0.9	0.2	0.7	(s)	6.5	8.3	0.0	0.1	(s)	0.0	(s)	2.2	19.2	2.8	22.1
South Carolina	2.4	102.2	10.9	2.6	3.2	0.6	21.0	38.3	0.0		0.0	0.0	0.2		317.5	180.9	498.4
South Dakota	4.2	54.0	10.8	2.3	1.3	(s)	6.3	20.8	0.0	1.7	69.3	0.3	(s)	10.9	161.2	4.6	165.8
Tennessee	27.5	158.6	12.2	2.6	6.2	0.2	50.3	71.5	0.0	30.4	8.6	0.0	(s)	77.8	374.4	139.6	514.0
Texas	6.3	2,485.5	177.9	2,266.5	19.9	15.0	1,122.2	3,601.6	0.0		18.8	0.0	(s)	491.0	6,678.9	659.6	7,338.5
Utah	7.4	58.3	14.6	2.0	2.3	(s)	33.7	52.6	0.0		0.0	0.4	(s)	31.1	149.9	51.1	201.0
Vermont	0.0	2.3	3.3	0.2	0.5	0.1	4.3	8.4	0.0	0.2	0.0	0.0	(s)	4.7	15.5	0.5	16.0
Virginia	33.7	119.8 87.2	15.4 20.4	5.0	4.0	0.9	30.8 84.6	56.0	(s) 0.0	56.9 67.2	(s)	0.0	(s)	57.5 72.4	323.9 344.4	93.5 31.8	417.4 376.2
Washington West Virginia	1.5 11.2	177.9	20.4 17.0	5.7 10.9	5.2 1.4	(s) (s)	13.7	116.0 43.0	1.8		0.1 0.0	0.0	(s)	72.4 49.7	344.4 284.7	99.2	376.2
Wisconsin	10.0	157.8	25.1	5.5	5.4	1.1	35.1	72.2	0.3		28.1	0.0	0.1	80.4	394.3	140.8	535.1
Wyoming	27.3	120.7	24.9	1.4	1.3	0.0	20.4	48.0	0.0	0.1	0.0	0.0	(s)	33.7	229.8	58.5	288.3
United States	985.5	10,765.6	1,197.9	3,240.3	276.4	47.0	3,712.6	8.474.2	3.1	1.469.3	808.2	4.2	14.8		25,919.3	5,130.5	

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Includes fuel ethanol blended into motor gasoline.
 d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products"

category. See Technical Notes, Section 4.

<sup>e</sup> Conventional hydroelectric power. Excludes hydroelectric pumped-storage.

<sup>f</sup> Wood, wood-derived fuels, and biomass waste.

<sup>g</sup> Losses and co-products from the production of biodiesel and fuel ethanol.

<sup>h</sup> Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

Electricity sales to ultimate customers.

J U.S. total includes -55.8 trillion Btu of net imports of coal coke that are not allocated to the states.

k Includes a small amount of wind energy consumed by industrial utility-scale facilities. Adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

electrical system energy losses.

Where shown, (s) = Value less than 0.05 trillion Btu.

Notes: • Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C8. Transportation sector energy consumption estimates, 2022 (trillion Btu)

						Petro	leum						Electrical	
State	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total <sup>f</sup>	Electricity <sup>g</sup>	End use	system energy losses <sup>h</sup>	Total <sup>f</sup>
Alabama	0.0	30.7	0.4	130.3	0.2	9.6	2.8	370.7	5.0	521.0	0.0	551.6	0.0	551.6
Alaska	0.0	0.5	1.1	35.8	(s)	119.9	0.5	30.8	0.0	188.6		189.0	0.0	189.0
Arizona	0.0	18.6	0.9	136.6	0.3	74.6	2.7	332.2	0.0	548.6	(s)	567.3	0.1	567.4
Arkansas	0.0	5.8	0.3	95.3	(s)	6.3	1.7	172.4	0.0	277.4	(s)	283.3	(s)	283.3
California	0.0	50.9	2.0	468.0	(s) 0.7	470.0	11.8	1,511.2	182.0	2,860.0	(s) 2.3	283.3 2,913.3	(s) 2.6	283.3 2,915.8
Colorado	0.0	9.8	0.6	124.5	0.3	73.8	2.4	288.7	0.0	490.6		500.7	0.4	501.1
Connecticut	0.0	6.3	0.1	38.1	0.2	10.1	1.1	168.0	0.0	218.1	0.6	224.9	0.9	225.9
Delaware	0.0	0.9	(s) 0.0	10.0	0.3	9.8	0.3	55.6	0.3	76.5	0.0	77.4	0.0	77.4
Dist. of Col.	0.0	1.9		2.3	(s)	0.0	0.1	11.2	0.0	13.6		16.3	1.4	17.7
Florida	0.0	24.1	2.6	278.5	0.8	311.9	7.4	1,041.5	69.9	1,714.1	0.3	1,738.4	0.4	1,738.8
Georgia	0.0	12.9	0.7	184.1	0.7	133.0	4.0	530.6	7.0	861.2		874.6	0.8	875.4
Hawaii	0.0	0.0	0.1	12.6	0.0	88.3	0.3	46.5	7.7	155.8		155.8	0.0	155.8
Idaho	0.0	7.7	0.3	58.0	(s)	10.3	0.9	92.5	0.0	162.2		169.9	0.0	169.9
Illinois	0.0	19.8	0.5	229.8	0.3	154.2	4.2	467.3	0.1	868.6		889.9	2.9	892.8
Indiana	0.0	11.7	0.4	180.8	0.3	22.3	3.2	345.7	1.7	557.3	(s) 0.0	569.0	0.1	569.1
lowa	0.0	8.6	0.2	100.8	0.1	6.4	1.7	174.9	0.0	289.1		297.8	0.0	297.8
Kansas	0.0	15.8	0.3	102.0	(s)	8.2	1.5	137.3	0.0	251.1	0.0	266.9	0.0	266.9
Kentucky	0.0	27.2	0.2	128.3	0.1	87.3	2.3	249.8	0.0	469.9		497.2	0.0	497.2
Louisiana	0.0	286.4	0.3	156.7	0.3	20.5	2.8	247.2	39.4	469.4	(s) 0.0	755.8	(s) 0.0	755.9
Maine	0.0	2.0	0.1	27.4	(s)	3.9	0.6	73.0	0.4	105.7		107.6		107.6
Maryland	0.0	30.5	0.2	64.1	0.2	35.4	1.7	258.1	0.6	360.7	1.3	392.5	2.2	394.7
Massachusetts	0.0	8.7	0.4	60.6	0.1	61.5	1.8	282.9	1.4	409.2		419.0	1.5	420.5
Michigan	0.0	30.4	0.5	129.1	0.5	43.7	3.3	495.9	5.2	680.3		710.7	(s) 0.1	710.8
Minnesota	0.0	17.8	0.4	103.7	0.4	41.5	2.1	271.8	0.0	429.3		447.1	0.1	447.2
Mississippi	0.0	39.2	0.3	103.3	(s) 0.2	7.4	1.8	196.9	2.3	313.7	0.0	352.9	0.0	352.9
Missouri	0.0	4.8	0.4	139.2		26.5	2.9	367.5	(s)	539.0	0.1	543.9	0.2	544.1
Montana	0.0 0.0	2.6	0.2 0.2	42.1	(s) (s)	6.8	0.7	63.1	0.0	112.9 194.1	0.0	115.6	0.0	115.6 199.7
Nebraska	0.0	5.6	0.2	83.3 52.6	(8)	6.1 77.4	1.2 1.1	101.8	0.0	271.5		199.7 276.4	0.0	199.7 276.5
Nevada	0.0	4.9 0.1	0.2	16.4	(s)	4.3	0.5	139.5 78.8	0.0	100.3	(s) 0.0	100.5	(s) 0.0	100.5
New Hampshire New Jersev	0.0	8.3	0.1	110.0	(s) 0.2	4.3 98.9	2.9	395.2	26.5	634.6		643.8		645.2
New Jersey New Mexico	0.0	12.3	0.3	96.1	(0)	96.9 8.6	2.9 1.4	395.2 110.4	26.5 0.0	217.7	0.9	230.0	1.5 0.0	230.0
New York	0.0	43.4	0.4	213.1	(s) 0.3	240.0	4.6	581.6	18.6	1,064.8		1,117.1	10.9	1,128.1
North Carolina	0.0	7.8	0.4	157.5	0.3	84.5	3.8	550.9	0.2	798.6		806.5	0.1	806.5
North Dakota	0.0	36.9	0.6	46.0		4.6	0.6	46.3	0.0	99.0		136.0	0.1	136.0
Ohio	0.0	59.0	0.5	218.5	(s) 0.3	52.8	4.3	532.3	0.0	812.5		871.6	0.0	871.8
Oklahoma	0.0	45.8	0.3	144.1	0.4	45.5	2.3	215.3	0.0	410.1	0.0	456.0	0.0	456.0
Oregon	0.0	9.5	0.3	85.2	0.4	28.0	1.5	167.1	0.8	296.0		305.5	(s)	305.6
Pennsylvania	0.0	60.0	0.4	210.8	0.6	56.7	4.2	509.6	1.5	787.7	1.8	849.5	2.9	852.5
Rhode Island	0.0	3.2		10.5		2.1	0.3	40.9	(s)	54.0		57.2	0.1	57.3
South Carolina	0.0	2.7	(s) 0.3	115.6	(s) 0.3	17.7	2.5	313.1	10.8	460.9	0.0	463.6	0.0	463.6
South Dakota	0.0	6.7	0.1	33.6	(e)	4.2	0.6	56.1	0.0	95.3		102.0	0.0	102.0
Tennessee	0.0	19.3	0.5	160.6	(s) 0.1	85.4	3.2	392.3	0.1	644.5		663.8	0.0	663.8
Texas	0.0	220.0	2.0	885.6	1.2	282.4	16.5	1,679.5	166.5	3,047.3		3,268.0	0.8	3,268.8
Utah	0.0	12.7	0.3	78.6	(s)	45.6	1.4	141.3	0.0	267.5	0.2	280.3	0.3	280.6
Vermont	0.0			8.4	(s)	1.3	0.2	32.1		42.1	0.0	42.2	0.0	42.2
Virginia	0.0	(s) 15.4	(s) 0.4	150.7	(s) 0.2	122.6	3.3	436.9	(s) 2.7	717.6		733.5	0.7	734.2
Washington	0.0	18.9	0.6	122.4	0.4	101.6	2.8	292.8	79.3	601.6		620.9	0.2	621.1
West Virginia	0.0	36.0	0.1	64.0	(s)	1.0	1.0	89.2	0.0	155.7	0.0	191.7	0.0	191.7
Wisconsin	0.0	4.6	0.3	120.4	0.3	11.4	2.4	298.4	(s)	435.3	(s)	439.9		439.9
Wyoming	0.0	13.3	0.1	53.3	(s)	2.0	0.7	35.0	0.0	91.3	0.0	104.6	(s) 0.0	104.6
United States	0.0	1,322.2	22.3	6,379.2	11.1	3,227.9	129.9	15,519.3	630.1	26,256.1	22.5	27,600.8	31.2	27,632.0

<sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. <sup>b</sup> Includes biodiesel and renewable diesel blended into distillate fuel oil.

Hydrocarbon gas liquids, assumed to be propane only.
 Includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector, Other petroleum."

Includes fuel ethanol blended into motor gasoline.

U.S. total includes other biofuels product supplied not allocated to the states.

9 Electricity sales to ultimate customers. Sales to public railroads and railway systems only. Excludes

electric vehicles.

h Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

Where shown, (s) = Value less than 0.05 trillion Btu.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C9. Electric power sector consumption estimates, 2022 (trillion Btu)

				Petro	leum				Biomass					
State	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	Petroleum coke	Residual fuel oil	Total	Nuclear electric power	Hydroelectric power b	Wood and waste <sup>c</sup>	Geothermal	Solar <sup>d</sup>	Wind	Electricity net imports <sup>e</sup>	Total <sup>f</sup>
Alabama	264.5	468.4	0.4	0.0	0.0	0.4	441.3	34.8	0.4	0.0	3.1	0.0	0.0	1,212.9
Alaska	11.3	26.8	4.6	0.0	0.0	4.6	0.0	5.2	0.0	0.0	0.0	0.5	0.0	48.5
Arizona	148.0	349.0	0.4	0.0	0.0	0.4	333.1	18.1	3.0	0.0	24.0	5.3	(s)	880.9
Arkansas	208.5	194.4	0.7	0.0	0.0	0.7	149.4	11.8	0.6	0.0	2.4	0.0	0.0	567.8
California	0.0	668.1	0.3	0.0	0.0	0.3	183.5	60.2	57.3	38.1	131.0	49.9	10.9	1,199.4
Colorado	229.6	136.6	0.4	0.0	0.0	0.4	0.0	4.5	2.3	0.0	8.2	57.7	0.0	437.5
Connecticut	0.0	169.7	0.5	0.0	3.1	3.6	171.7	1.1	9.0	0.0	1.4	(s)	0.0	356.5
Delaware	1.8	32.8	0.9	0.0	0.3	1.2	0.0	0.0	0.6	0.0	0.2	0.0	0.0	36.7
Dist. of Col.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Florida	167.4 174.4	1,424.4 445.6	4.6 2.2	9.3 0.0	0.5 0.0	14.3 2.2	320.9 355.4	0.8 10.8	36.7 26.4	0.0 0.0	38.7 23.7	0.0 0.0	0.0 0.0	2,003.2 1,038.2
Georgia Hawaii	7.7	0.0	13.7	0.0	53.3	67.0	0.0	0.2	20.4	0.0	1.9	2.1	0.0	80.9
Idaho	0.0	33.4		0.0	0.0		0.0	28.5	1.7	0.7	1.8	8.3	0.0	74.1
Illinois	427.1	149.1	(s) 0.5	0.0	0.0	(s) 0.5	1,031.1	0.4	4.5	0.0	5.3	80.1	0.0	1,696.4
Indiana	580.0	244.7	1.3	0.0	0.0	1.3	0.0	1.3	3.5	0.0	3.7	34.1	0.0	867.8
lowa	183.5	58.9	1.3	0.0	0.0	1.3	0.0	3.4	1.6	0.0	1.3	156.1	0.0	401.8
Kansas	224.9	31.2	1.3	0.0	0.0	1.3	93.7	0.1	0.7	0.0	0.3	101.2	0.0	453.2
Kentucky	502.5	141.2	1.2	0.2	0.0	1.4	0.0	15.5	1.3	0.0	0.2	0.0	0.0	662.0
Louisiana	91.9	373.3	0.2	34.5	0.0	34.7	168.6	3.1	1.3	0.0	0.7	0.0	0.0	673.6
Maine	_1.3	26.1	(s)	0.0	3.0	3.1	0.0	10.2	19.0	0.0	1.5	9.3	6.5	76.9
Maryland	52.5	100.7	1.4	0.0	0.5	1.9	154.5	6.1	5.8	0.0	2.4	1.7	0.0	325.3
Massachusetts	0.0	118.9	3.9	0.0	3.0	6.9	0.0	3.0	8.3	0.0	6.6	0.7	0.0	144.2
Michigan	376.4	337.7 70.8	1.1	19.7	0.1	20.9	271.3	4.7 3.0	22.1 8.9	0.0 0.0	2.9	31.2	6.0	1,073.0 478.1
Minnesota Mississippi	168.1 64.2	389.3	0.6 0.1	0.0 0.0	0.0 0.0	0.6 0.1	153.3 89.7	0.0	0.9	0.0	6.5 1.7	51.4 0.0	15.5 0.0	545.1
Missouri	547.8	78.3	2.2	0.0	0.0	2.2	92.6	4.7	0.7	0.0	0.5	25.7	0.0	752.4
Montana	126.8	8.1	0.1	7.3	0.0	7.4	0.0	33.7	0.1	0.0	0.1	13.7	-3.9	186.0
Nebraska	206.5	13.4	0.5	0.0	0.0	0.5	58.6	3.6	0.8	0.0	0.3	43.0	0.0	326.7
Nevada	31.0	194.9	0.1	0.0	0.0	0.1	0.0	5.8	0.7	13.4	30.6	1.1	0.0	277.5
New Hampshire	3.9	33.0	2.5	0.0	1.2	3.7	113.9	4.1	11.8	0.0	(s)	1.6	0.0	172.1
New Jersey	6.2	259.1	0.9	0.0	0.0	0.9	295.3	(s) 0.4	4.9 0.2	0.0	4.6	0.1	0.0	571.1
New Mexico	136.6	92.5	0.2	0.0	0.0	0.2	0.0			0.2	6.8	49.2	0.0	286.0
New York	0.0	490.5	6.1	0.0	10.3	16.4	279.6	93.4	15.5	0.0	6.0	15.6	41.7	958.3
North Carolina	152.0	478.1	3.0	0.0	0.0	3.0	444.7	16.0	9.7	0.0	38.0	1.9	0.0	1,143.4
North Dakota Ohio	283.8 446.9	14.4 504.4	0.4 4.8	0.0 11.9	0.0 0.0	0.4 16.6	0.0 175.5	6.1 1.7	0.0 4.7	0.0 0.0	0.0 3.1	55.4 10.4	16.6 0.0	375.9 1,162.5
Oklahoma	102.3	296.5	0.3	0.0	0.0	0.3	0.0	6.0	0.4	0.0	0.3	128.1	0.0	533.7
Oregon	0.0	140.1	(s)	0.0	0.0	(s)	0.0	106.8	6.6	0.6	5.5	27.8	0.0	287.4
Pennsylvania	267.7	915.4	3.2	0.0	0.0	3.3	794.3	9.1	16.5	0.0	0.8	12.2	0.0	2,018.6
Rhode Island	0.0	51.7	0.6	0.0	0.0	0.6	0.0	(s)	2.1	0.0	1.2	0.7	0.0	56.4
South Carolina	148.6	195.1	2.0	0.0	0.0	2.0	567.0	(s) 7.4	15.4	0.0	8.2	0.0	0.0	943.7
South Dakota	20.6	12.7	0.3	0.0	0.0	0.3	0.0	14.5	0.0	0.0	(s) 2.3	35.1	0.0	83.1
Tennessee	177.2	123.2	2.1	0.0	0.0	2.1	371.6	31.4	0.8	0.0	2.3	0.1	0.0	708.7
Texas	926.2	1,839.2	3.3	0.0	0.0	3.3	433.9	2.1	9.1	0.0	76.5	391.5	-12.0	3,667.7
Utah	230.5	83.8	0.3	0.0	0.0	0.3	0.0	1.9	0.8	1.6	13.1	2.5	0.0	334.5
Vermont	0.0	(s)	0.1	0.0	0.0	0.1	0.0	3.9	6.0	0.0	0.7	1.4	46.8	58.8
Virginia Washington	33.8	363.2	6.2	0.0	0.2 0.0	6.4	294.1	3.9	29.9	0.0	15.8	0.2	0.0	747.1
Washington West Virginia	40.8 525.5	104.8 17.9	0.3 1.7	0.0 0.0	0.0	0.3 1.7	102.7 0.0	269.3 3.8	6.1	0.0 0.0	0.3 0.0	27.5 6.8	12.5 0.0	564.2 555.8
Wisconsin	222.5	180.2	0.4	2.0	0.0	2.4	105.1	6.5	(s) 14.7	0.0	2.8	6.1	0.0	540.2
Wyoming	362.8	100.2	0.4	0.0	0.0	0.5	0.0	2.5	0.0	0.0	0.6	33.4	0.0	410.5
United States	8,885.7	12,492.3	83.4	84.8	75.6	243.8	8,046.4	865.4	374.2	54.9	487.4	1,480.8	140.6	33,056.6
United States	6,665.7	12,492.3	63.4	64.8	75.6	243.8	0,040.4	805.4	3/4.2	54.9	407.4	1,460.8	140.6	33,U30.b

Where shown, (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Conventional hydroelectric power. Excludes hydroelectric pumped-storage.

Wood, wood-derived fuels, and biomass waste.

 Solar thermal and photovoltaic energy.
 Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

<sup>&</sup>lt;sup>†</sup> Adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

## 2022 Consumption Ranking Tables

Table C10. Total energy consumption estimates, real gross domestic product (GDP), energy consumption estimates per real dollar of GDP, ranked by state, 2022

	Total ener	gy consumption	Real gross d	omestic product (GDP)	Energy consu	mption per real dollar of GDP
Rank	State	Trillion Btu	State	Billion chained (2017) dollars	State	Thousand Btu per chained (2017) dollar
,	Texas	13.780.6	California	3,167.5	Louisiana	18.3
2 l	California	6.882.4	Texas	1,924.0	Alaska	14.3
3	Florida	4,325.0	New York	1,763.5	Wyoming	13.3
4	Louisiana	4,246.0	Florida	1,763.3	North Dakota	12.2
5		4,246.0 3,736.9		1,216.4 864.2	West Virginia	10.9
	Pennsylvania	3,730.9	Illinois	804.Z	vvest virginia	10.9
6	Illinois	3,675.6	Pennsylvania	772.3	Mississippi	9.6
(	Ohio	3,503.2	Ohio	689.7	Alabama	8.0
8	New York	3,452.7	Georgia	655.8	Oklahoma	7.9
9	Georgia	2,836.2	New Jersey	646.7	Kentucky	7.6
0	Michigan	2,706.8	Washington	641.1	Arkansas	7.6
1	Indiana	2,618.9	North Carolina	609.1	Montana	7.3
2	North Carolina	2,568.8	Massachusetts	604.4	lowa	7.1
3	Virginia	2,427.8	Virginia	577.0	Texas	7.1
4	Tennessee	2,101.8	Michigan	539.9	New Mexico	6.7
5	New Jersey	2,014.4	Colorado	416.1	Indiana	6.6
6	Alabama	1,902.4	Maryland	412.3	South Dakota	6.5
۶ I	Wisconsin	1,768.6	Tennessee	412.1	South Carolina	6.4
8	Minnesota	1.759.9	Arizona	403.5	Nebraska	6.1
9	Missouri	1,733.4	Indiana	396.0	Kansas	5.7
0						5.7 5.6
	Kentucky	1,673.2	Minnesota	379.1	Idaho	5.0
1	South Carolina	1,623.4	Missouri	336.6	Wisconsin	5.2
2	Washington	1,571.4	Wisconsin	335.7	Missouri	5.1
3	Arizona	1,526.9	Connecticut	276.7	Tennessee	5.1
4	Oklahoma	1,526.4	Oregon	254.7	Ohio	5.0
5	Colorado	1,464.0	South Carolina	250.9	Michigan	5.0
6	lowa	1,423.2	Alabama	235.8	Pennsylvania	4.8
7 I	Massachusetts	1,315.2	Louisiana	231.3	Minnesota	4.6
8	Maryland	1,202.8	Kentucky	217.6	Maine	4.6
9	Mississippi	1,099.8	Utah	213.9	Georgia	4.3
8 9 0	Arkansas	1,052.5	Iowa	197.8	Illinois	4.2
1	Kansas	1,000.7	Oklahoma	191.6	North Carolina	4.2
2	Oregon	857.3	Nevada	187.2	Virginia	4.2
3	Utah	848.7	Kansas	174.8	Utah	3.9
ĭ	Nebraska	846.4	District of Columbia	144.0	Arizona	3.7
- 1	West Virginia	835.5	Arkansas	137.4	Nevada	3.7
4 5 6 7	Alaska	724.1	Nebraska	137.4	Delaware	3.6
9	Connecticut	707.6	Mississippi	137.1	Vermont	3.6
8		707.6 706.1	New Mexico	101.3		3.5
٥	Nevada				Florida	3.5
9	New Mexico	687.6	Idaho	91.7	Colorado	3.5
0	North Dakota	670.6	New Hampshire	90.2	Oregon	3.3
1	Idaho .	519.0	Hawaii	85.2	New Hampshire	3.3
2	Wyoming	496.2	West Virginia	76.5	Hawaii	3.1
3	Montana	395.3	Delaware	75.2	New Jersey	3.1
4	South Dakota	358.4	Maine	72.4	Rhode Island	3.0
5	Maine	335.3	Rhode Island	62.2	Maryland	2.9
3 7	New Hampshire	297.2	South Dakota	55.0	Connecticut	2.5
7	Delaware .	274.8	North Dakota	54.8	Washington	2.4
3	Hawaii	270.3	Montana	54.0	Massachusetts	2.1
9	Rhode Island	186.6	Alaska	50.3	California	2.1
0	District of Columbia	141.0	Wyoming	37.3	New York	1.9
1	Vermont	124.8	Vermont	34.6	District of Columbia	0.9
- 1	United States	94,773.7	United States	21,822.0	United States	4.3

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data Source: Table by the U.S. Energy Information Administration, State Energy Data System based on GDP data from the U.S. Bureau of Economic Analysis. See Technical Notes. http://www.eia.gov/state/seds/

Table C11. Total energy consumption estimates by end-use sector, ranked by state, 2022

	Resident	tial	Commerc	cial	Industri	al <sup>a</sup>	Transporta	tion <sup>b</sup>	Total a,b		
Rank	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	
1	Texas	1,633.4	Texas	1,546.1	Texas	7,338.5	Texas	3,268.8	Texas	13.780.6	
2	California	1,203.7	California	1,193.1	Louisiana	2 050 5	California	2,915.8	California	6,882.4	
3	Florida	1,182.6	New York	969.8	California	2,950.5 1,539.3	Florida	1,738.8	Florida	4.325.0	
4	New York	1,024.8	Florida	930.4	Pennsylvania	1,445.3	New York	1,128.1	Louisiana	4,323.0	
5	Illinois	925.5	Illinois	743.9	Indiana	1,180.0	Illinois	892.8	Pennsylvania	3,736.9	
		880.7		734.1	Ohio	1,136.8		875.4	Illinois	3,730.8	
6	Pennsylvania		Virginia Ohio			1,130.8	Georgia Ohio	875.4 871.8	Ohio		
	Ohio	844.5		651.4	Illinois	1,109.0				3,503.2	
8	Michigan	753.9	Michigan	579.0	Alabama	774.3	Pennsylvania	852.5	New York	3,452.7	
9	Georgia	697.2	Pennsylvania	559.4	lowa	771.3	North Carolina	806.5	Georgia	2,836.2	
10	North Carolina	672.6	North Carolina	558.3	Georgia	738.9	Louisiana	755.9	Michigan	2,706.8	
11	New Jersey	566.8	New Jersey	545.7	Michigan	664.0	Virginia	734.2	Indiana	2,618.9	
12	Virginia	544.3	Georgia	527.4	Oklahoma	617.4	Michigan	710.8	North Carolina	2,568.8	
13	Indiana	514.1	Tennessee	420.0	Kentucky	589.2	Tennessee	663.8	Virginia	2,427.8	
14	Missouri	512.6	Missouri	383.8	Minnesota	567.7	New Jersey	645.2	Tennessee	2,101.8	
15	Tennessee	505.1	Massachusetts	366.6	Wisconsin	535.1	Washington	621.1	New Jersey	2,014.4	
16	Wisconsin	430.9	Wisconsin	363.5	North Carolina	533.5	Indiana	569.1	Alabama	1,902.4	
17	Arizona	404.4	Indiana	356.9	Tennessee	514.0	Arizona	567.4	Wisconsin	1,768.6	
18	Minnesota	402.4	Maryland	350.7	South Carolina	498.4	Alabama	551.6	Minnesota	1,759.9	
19	Massachusetts	393.8	Minnesota	338.0	Florida	477.1	Missouri	544.1	Missouri	1,733.4	
20	South Carolina	374.4	Arizona	337.1	Alaska	429.8	Colorado	501.1	Kentucky	1,673.2	
21	Maryland	370.8	South Carolina	288.8	Virginia	417.4	Kentucky	497.2	South Carolina	1,623.4	
22	Colorado	339.4	Colorado	253.0	Mississippi	405.3	South Carolina	463.6	Washington	1,571.4	
23	Kentucky	338.4	Kentucky	249.4	West Virginia	383.9	Oklahoma	456.0	Arizona	1,526.9	
24	Washington	334.6	Alabama	244.4	Nebraska	381.4	Minnesota	447.2	Oklahoma	1,526.4	
25		332.9	Washington	240.5	North Dakota	380.7	Wisconsin	439.9	Colorado	1,464.0	
25	Alabama Louisiana	332.9		240.5		378.9	Massachusetts	409.9			
26		302.0	Louisiana	238.7	Arkansas		Massacriuseits	420.5	lowa	1,423.2	
27	Oklahoma	245.2	Oklahoma	208.8	Washington	376.2	Maryland	394.7	Massachusetts	1,315.2	
28	Connecticut	235.3	Connecticut	178.1	Colorado	372.5	Mississippi	352.9	Maryland	1,202.8	
29	Arkansas	218.3	Utah	176.2	Kansas	369.9	Oregon	305.6	Mississippi	1,099.8	
30	lowa	193.3	Kansas	175.2	New York	329.5	lowa	297.8	Arkansas	1,052.5	
31	Utah	192.1	Arkansas	172.7	Missouri	293.8	Arkansas	283.3	Kansas	1,000.7	
32	Mississippi	191.6	Iowa	159.1	Wyoming	288.3	Utah	280.6	Oregon	857.3	
33	Kansas	189.3	Mississippi	150.7	New Jersey	258.1	Nevada	276.5	Utah	848.7	
34	Oregon	180.9	Oregon	134.0	New Mexico	248.0	Kansas	266.9	Nebraska	846.4	
35	Nevada	157.3	Nevada	129.9	Oregon	233.2	New Mexico	230.0	West Virginia	835.5	
36	West Virginia	153.8	Nebraska	122.7	Arizona	219.5	Connecticut	225.9	Alaska	724.1	
36 37	Nebraska	143.0	West Virginia	107.0	Utah	201.0	Nebraska	199.7	Connecticut	707.6	
38	Idaho	123.3	New Mexico	102.7	South Dakota	165.8	West Virginia	191.7	Nevada	706.1	
39	New Mexico	107.9	North Dakota	90.0	Idaho	148.2	Alaska	189.0	New Mexico	687.6	
40	New Hampshire	94.1	District of Columbia	82.6	Nevada	142.9	Idaho	169.9	North Dakota	670.6	
41	Montana	90.8	Idaho	78.5	Massachusetts	134.8	Hawaii	155.8	Idaho	519.0	
42	Maine	86.9	Montana	72.1	Montana	117.6	North Dakota	136.0	Wyoming	496.2	
43	Delaware	64.6	New Hampshire	64.7	Maryland	87.5	Montana	115.6	Montana	395.3	
44	North Dakota	63.9	Maine	58.3	Maine	82.7	Maine	107.6	South Dakota	358.4	
45	Rhode Island	60.5	Alaska	55.5	Delaware	80.6	Wyoming	107.6	Maine	335.3	
40	Myoming	50.3	Wyoming	53.7	Connecticut	68.7	South Dakota	104.6	New Hampshire	297.2	
46	Wyoming			53./		08.7	Journ Dakola	102.0		297.2	
47	Alaska	50.0	Delaware	52.4	Hawaii	47.7	New Hampshire	100.5	Delaware	274.8	
48	South Dakota	49.0	Rhode Island	46.9	New Hampshire	38.0	Delaware	77.4	Hawaii	270.3	
49	Vermont	41.4	South Dakota	41.7	Rhode Island	22.1	Rhode Island	57.3	Rhode Island	186.6	
50	District of Columbia	35.6	Hawaii	36.6	Vermont	16.0	Vermont	42.2	District of Columbia	141.0	
51	Hawaii	30.1	Vermont	25.3	District of Columbia	5.2	District of Columbia	17.7	Vermont	124.8	
	United States	19,534.1	United States	16,545.2	United States	31,049.7	United States	27,632.0	United States	94,773.7	

 <sup>&</sup>lt;sup>a</sup> U.S. total includes -55.8 trillion Btu of net imports of coal coke that are not allocated to the states.
 <sup>b</sup> U.S. total includes 25.5 trillion Btu of other biofuels not allocated to the states.
 Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C12. Primary energy consumption estimates by source, ranked by state, 2022

	Coal		Natural g	as <sup>a</sup>	Petroleu	m <sup>b</sup>	Nuclea	ır	Total renewable	e energy <sup>c</sup>
Rank	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu
1	Texas	932.6	Texas	4,977.4	Texas	6,572.7	Illinois	1,031.1	California	882.
2	Indiana	719.2	California	2.130.9	California	3,044.7	Pennsylvania	794.3	Texas	742.
3	Missouri	566.9	Louisiana	2.073.7	Florida	1.810.6	South Carolina	567.0	Washington	426.
4	Ohio	539.6	Pennsylvania	1,936.6 1,659.7	Louisiana	1.655.1	North Carolina	444.7	Iowa	417
5	West Virginia	536.6	Florida	1,659.7	New York	1,319.9	Alabama	441.3	Florida	300
6	Kentucky	523.3	Ohio	1.421.8	Illinois	1,140.1	Texas	433.9	Georgia	286
7	Illinois	497.0	New York	1,402.2 1,136.9 1,087.6	Pennsylvania	1.104.6	Tennessee	371.6	New York	270
8	Pennsylvania	435.5	Illinois	1,136.9	Ohio ´	1,031.4 938.6	Georgia	355.4	Oregon	247
9	Michigan	423.5	Michigan	1,087.6	Georgia	938.6	Arizona	333.1	Illinois	245
10	Wyoming	390.3	Indiana	913.4	North Carolina	903.4	Florida	320.9	Alabama	232
11	North Dakota	369.3	Georgia	913.4 812.4	Michigan	822.2	New Jersey	320.9 295.3	Minnesota	232 230
12	Alabama	297.7	Alabama	787.2	Virginia	797.0	Virginia	294.1		200.
13	Utah	237.9	Oklahoma	782.2	New Jersey	768.6	New York	279.6	Michigan North Carolina	192
13 14	Colorado	233.3	New Jersey	755.0	Washington	723.7	Michigan	271.3	Oklahoma	188.
15	Wisconsin	232.5	North Carolina	747.2	Tennessee	706.9	California	183.5	Pennsylvania	184.
15 16	lowa	227.9	Virginia	665.9	Indiana	696.3	Ohio	175.5	Indiana	170.
17	Kansas	226.7	Mississippi	622.2	Arizona	609.0	Connecticut	171.7	Nebraska	168.
18	Nebraska	223.6	Wisconsin	621.9	Missouri	603.9	Louisiana	168.6	Virginia	165.
19	Arkansas	211.7	Minnesota	533.9	Kentucky	578.3	Maryland	154.5	Wisconsin	159.
20	Tennessee	204.7	Colorado	524.7	Alabama	576.6	Minnesota	153.3	Kansas	152.
21	Minnesota	184.5	Arizona	468.0	Minnesota	573.2	Arkansas	149.4	Ohio	144.
22	Georgia	180.9	Tennessee	440.0	Colorado	568.9	New Hampshire	113.9	South Carolina	144.
23	Florida	172.0	Alaska	437.9	Wisconsin	533.6	Wisconsin	105.1	Louisiana	133.
23	North Carolina	163.0	AldSNd Louis	407.8	Massachusetts	526.8	Washington	102.7	South Dakota	130.
24 25	Arizona	154.0	lowa Massachusetts	433.7 432.4	Oklahoma	519.3	Kansas	93.7	Colorado	121.
26	South Carolina	151.0	Kentucky	402.5	South Carolina	494.2	Missouri	92.6	Tennessee	113.
	South Carolina	101.0	Arkansas							102.
27	New Mexico	138.1	Arkansas	397.7	lowa	424.5	Mississippi	89.7	Arizona	
28	Montana	131.3	Washington	381.9	Maryland	410.7	Nebraska	58.6	Missouri	101.
29	Oklahoma	106.9	South Carolina	361.2	Mississippi	382.0	Alaska	0.0	Maine	101.
30	Louisiana	96.9	Missouri	322.5	Kansas	345.0	Colorado	0.0	North Dakota	97.
31	Virginia .	67.7	Kansas	318.0	Arkansas	325.5	Delaware	0.0	Arkansas	88.
32	Mississippi	66.2	Maryland	310.1	Utah	320.4	District of Columbia	0.0	Idaho	86.
32 33 34	Maryland	61.9	Connecticut	307.2 302.3	Oregon	319.2	Hawaii	0.0	New Mexico	82.
34	Washington	42.2	Nevada	302.3	Connecticut	303.3	Idaho	0.0	Kentucky	81.0
35	Nevada	35.8	New Mexico	302.0	Nevada	302.2	Indiana	0.0	Massachusetts	75.
36 37	California	30.0	Oregon	297.6	New Mexico	253.9	lowa	0.0	Nevada	73.
37	South Dakota	24.8	Utah	287.0	Alaska	252.4	Kentucky	0.0	Montana	68.
38	Alaska	18.6	West Virginia	284.8	Hawaii	241.9	Maine	0.0	Mississippi	65.
39	Hawaii	7.7	Nebraska	198.7	Nebraska	236.2	Massachusetts	0.0	New Jersey	65.
40	New Jersey	6.2	North Dakota	193.2	West Virginia	202.3	Montana	0.0	Maryland	48.
41	New York <sup>*</sup>	6.1	Wyoming	172.5	Idaho	189.2	Nevada	0.0	Wyoming	45.
42	New Hampshire	3.9	Idaho	141.9	Montana	176.0	New Mexico	0.0	New Hampshire	40.
43	Idaho	1.9	South Dakota	103.2	North Dakota	169.6	North Dakota	0.0	Connecticut	39.
44	Delaware	1.8	Montana	94.0	Maine	166.4	Oklahoma	0.0	Utah	36.
45	Maine	1.3	Rhode Island	93.8	New Hampshire	148.6	Oregon	0.0	Vermont	30.
46	Oregon	1.1	Delaware	89.7	Wyoming	144.5	Rhode Island	0.0	West Virginia	30.
47	Connecticut	0.0	Maine	62.6	South Dakota	118.1	South Dakota	0.0	Hawaii	20.
	District of Columbia	0.0	New Hampshire	60.1	Delaware	111.9	Utah	0.0	Alaska	15.
48 49	Massachusetts	0.0	District of Columbia	30.2	Rhode Island	79.0	Vermont	0.0	Rhode Island	10.
50	Rhode Island	0.0	Vermont	14.0	Vermont	71.5	West Virginia	0.0	Delaware	7.
51	Vermont	0.0	Hawaii	0.2	District of Columbia	18.0	Wyoming	0.0	District of Columbia	2.
	United States	9,885.7	United States	33,334.1	United States	35,331.9	United States	8.046.4	United States	8,090.

Excludes supplemental gaseous fuels that are commingled with natural gas.
 Excludes biofuels blended into petroleum products.
 Includes biomass (wood, biomass waste, biodiesel, fuel ethanol, renewable diesel, and losses and co-products from biofuel production), conventional hydroelectric power, geothermal, solar thermal and photovoltaic, and wind energy. U.S. total includes other biofuels not allocated to the states.
 Where shown, (s) = Value less than 0.05 trillion Btu.
 Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

R Table C13. Renewable energy consumption estimates by source, ranked by state, 2022

	Biomas	s <sup>a</sup>	Geother	mal	Hydroelectric	power b	Solar	С	Wind	
Rank	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu
1	California	498.6	California	40.3	Washington	269.3	California	232.9	Texas	391
2	Texas	259.1	Nevada	14.9	Oregon	106.8	Texas	87.4	Iowa	156
3	lowa	254.6	Florida	10.1	New York	93.6	Florida	74.8	Oklahoma	128
4	Georgia	250.3	Michigan	5.2	California	60.2	Arizona	41.1	Kansas	10
5	Florida	215.1	Indiana	4.6	Alabama	34.8	North Carolina	40.7	Illinois	8
6	Alabama	194.4	Ohio	3.4	Montana	33.7	Nevada	36.6	Colorado	5
7	Minnesota	167.0	Kentucky	2.7	Tennessee	31.4	Georgia	25.3	North Dakota	5
8	Pennsylvania	157.1	Texas	2.5	Idaho	28.5	New York	19.3	Minnesota	5
9	Michigan	154.9	Utah	2.4	Arizona	18.1	Massachusetts	18.6	California	4
10	Illinois	151.8	Pennsylvania	2.4	North Carolina	16.0	New Jersey	17.8	New Mexico	4
11	Wisconsin	142.3	Illinois	2.2				17.0	Nebraska	4
					Kentucky	15.5	Virginia Utah			
12	Virginia	142.1	South Dakota	1.9	South Dakota	14.5		15.9	South Dakota	3
13	New York	141.0	Oregon	1.8	Arkanṣas	11.8	Colorado	13.2	Indiana	3
14	North Carolina	132.6	Louisiana	1.8	Georgia	10.8	Illinois	10.8	Wyoming	3
15	Louisiana	126.8	Idaho	1.8	Maine	10.5	South Carolina	10.1	Michigan	3
16	Washington	126.4	Virginia	1.7	Pennsylvania	9.1	New Mexico	9.0	Oregon	2
17	Indiana	125.5	Iowa	1.3	South Carolina	7.4	Hawaii	8.4	Washington	2
18	South Carolina	124.9	Nebraska	1.2	Wisconsin	6.8	Oregon	8.3	Missouri	2
19	Ohio	124.2	New York	1.2	North Dakota	6.1	Minnesota	7.5	New York	1
20	Nebraska	120.4	Washington	1.1	Maryland	6.1	Maryland	6.9	Montana	1
21	Oregon	102.8	Minnesota	1.1	Okláhoma	6.0	Connecticut	6.0	Pennsylvania	1
22	Maine	79.2	North Dakota	1.0	Alaska	5.8	Indiana	4.8	Ohio	1
3	Tennessee	78.9	Kansas	1.0	Nevada	5.8	Ohio	4.5	Maine	
24	South Dakota	78.5	North Carolina	1.0	West Virginia	5.6	Pennsylvania	4.3	Idaho	
25	Arkansas	72.2	Mississippi	1.0	Michigan	4.7	Michigan	4.3	West Virginia	
26	Missouri	68.7	Massachusetts	0.9	Missouri	4.7	Wisconsin	3.8	Wisconsin	
27	Mississippi	62.5	Arkansas	0.8	Colorado	4.6	Arkansas	3.4	Arizona	
28	Kentucky	62.2	Colorado	0.8	New Hampshire	4.1	Alabama	3.2	Utah	
20	Oklahoma	53.8	Hawaii	0.8	Vermont	3.9	Rhode Island	3.2	Hawaii	
29 30	Massachusetts	51.9	Wyoming	0.7	Virginia	3.9	Maine	2.8	North Carolina	
31			South Carolina							
31	Kansas	49.6		0.6	Nebraska	3.6	Tennessee	2.6	Maryland	
32 33 34	New Jersey	46.6	Wisconsin	0.6	lowa	3.4	Idaho	2.5	New Hampshire	
33	Idaho	45.1	Maryland	0.6	Minnesota	3.2	lowa	2.4	Vermont	
34	Colorado	44.9	New Mexico	0.5	Louisiana	3.1	Missouri	2.4	Nevada	
35	Arizona	37.6	New Jersey	0.5	Massachusetts	3.0	Mississippi	1.8	Massachusetts	
36	North Dakota	35.2	Delaware	0.4	Wyoming	2.5	Washington	1.8	Rhode Island	
36 37	New Hampshire	33.3	Missouri	0.4	Texas	2.1	Louisiana	1.7	Alaska	
38	Maryland ·	32.7	Arizona	0.3	Utah	2.0	Vermont	1.5	Virginia	
39	Connecticut	31.9	Montana	0.3	Ohio	1.7	New Hampshire	0.9	New Jersey	
10	Vermont	23.8	Georgia	0.3	Indiana	1.3	Delaware .	0.8	Tennessee	
11	New Mexico	22.9	Tennessee	0.2	Connecticut	1.1	Wyoming	0.7	Connecticut	
12	Montana	20.4	Alaska	0.2	Florida	0.8	District of Columbia	0.7	Delaware	
13	West Virginia	17.8	Alabama	0.1	New Mexico	0.4	Oklahoma	0.6	Alabama	
4	Nevada	15.0	Maine	0.1	Illinois	0.4	Kansas	0.6	Arkansas	
5	Utah	14.0	Rhode Island	0.1	Hawaii	0.4	Kentucky	0.6	District of Columbia	
6	Hawaii	9.0	West Virginia		Kansas	0.4	Nebraska	0.0	Florida	
7	Alaska	9.0 8.5	New Hampshire	(8)	Rhode Island	(6)	Montana	0.4	Georgia	
18	Wyoming	8.1	Vermont	(8)	New Jersey	(s) (s) 0.0	West Virginia	0.3	Kentucky	
				(S)		(S)				
19	Rhode Island	7.0	Oklahoma	(s)	Delaware		Alaska	0.1	Louisiana	
50	Delaware	6.0	District of Columbia	(s) (s) (s) (s) (s)	District of Columbia	0.0	South Dakota	(s)	Mississippi	
51	District of Columbia	1.9	Connecticut	(s)	Mississippi	0.0	North Dakota	(s)	South Carolina	
	United States	4,856.7	United States	118.4	United States	869.3	United States	764.6	United States	1,48

a Includes wood, biomass waste, biodiesel, fuel ethanol, renewable diesel, and losses and co-products from biofuel production. U.S. total includes other biofuels not allocated to the states.
 b Conventional hydroelectric power.
 c Solar thermal and photovoltaic energy.
 Where shown, (s) = Value less than 0.05 trillion Btu.
 Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table C14. Total energy consumption estimates per capita by end-use sector, ranked by state, 2022

	Residen	tial	Commerc	cial	Industri	ial	Transporta	ation	Total	
Rank	State	Million Btu	State	Million Btu	State	Million Btu	State	Million Btu	State	Million Btu
1	West Virginia	86.7	District of Columbia	123.1	Louisiana	643.1	Alaska	257.8	Alaska	987.4
2	Wyoming	86.5	North Dakota	115.5	Alaska	586.2	Wyoming North Dakota	179.8	Louisiana	925.4
3	Missouri	83.0	Wyoming	92.4	Wyoming North Dakota	495.7	North Dakota	174.5	North Dakota	861.0
4	North Dakota	82.0	Virginia	84.6		488.8	Louisiana	164.8	Wyoming	853.
5	Montana	80.9	Alaska	75.6	Texas	244.4	Mississippi	120.1	West Virginia	471.0
6	Indiana	75.2	Montana	64.2	lowa	241.1	Oklahoma	113.4	Texas	458.9
7	Michigan	75.1	Nebraska	62.4	West Virginia	216.4	South Dakota	112.1	Iowa	444.
8	Kentucky	75.0	Missouri	62.1	Nebraska	193.8	Kentucky	110.2	Nebraska	430.
9	Illinois	73.6	Wisconsin	61.7	South Dakota	182.3	Texas	108.9	South Dakota	393.
10	Wisconsin	73.1	West Virginia	60.3	Indiana	172.7	New Mexico	108.8	Indiana	383.
11	Nebraska	72.7	Kansas	59.7	Oklahoma	153.6	Alabama	108.7	Oklahoma	379.
12	Ohio	71.8	Tennessee	59.6	Alabama	152.6	Hawaii	108.2	Alabama	374.
13 14	<u>A</u> rkansas	71.7	Minnesota	59.1	Mississippi	137.9	West Virginia	108.0	Mississippi	374.2
14	Tennessee	71.7	Illinois	59.1	Kentucky	130.6	Montana	102.9	Kentucky	370.9
15	South Carolina	70.9	New Jersey	58.9	Kansas	126.0	Nebraska	101.5	Montaná	352.0
16	Minnesota	70.4	Michigan	57.7	Arkansas	124.4	Tennessee	94.2	Arkansas	345.5
17	Alaska	68.2	Maryland	56.9	New Mexico	117.3	Iowa	93.1	Kansas	340.8
18	Pennsylvania	67.9	Arkánsas	56.7	Pennsylvania	111.4	Arkansas	93.0	New Mexico	325.3
19	New Hampshire	67.3	Ohio	55.4	Montana	104.7	Kansas	90.9	Minnesota	308.0
20	Louisiana	65.8	Kentucky	55.3	Minnesota	99.3	Missouri	88.1	South Carolina	307.3
21	Alabama	65.6	South Carolina	54.7	Ohio	96.7	South Carolina	87.7	Wisconsin	300.2
22	Mississippi	65.2	Massachusetts	52.5	South Carolina	94.3	Idaho	87.6	Tennessee	298.2
23	Connecticut	65.2	Indiana	52.2	Wisconsin	90.8	Nevada	87.0	Ohio	297.9
24	Kansas	64.5	North Carolina	52.2	Illinois	88.1	Colorado	85.8	Illinois	292.
25 26	Vermont	63.9	Utah	52.1	Delaware	79.0	Virginia	84.6	Pennsylvania	288.1
26	Georgia	63.9	Louisiana	52.0	Idaho	76.4	Indiana	83.3	Missouri	280.6
27	Idaho	63.6	Oklahoma	51.9	Tennessee	72.9	Utah	83.0	Virginia	279.7
28	Delaware	63.4	Texas	51.5	Georgia	67.7	Georgia	80.2	Michigan	269.8
29	North Carolina	62.9	Delaware	51.4	Michigan	66.2	Washington	79.8	Delaware	269.6
30	Virginia	62.7	Mississippi	51.3	Colorado	63.8	Minnesota	78.3	Idaho	267.7
31	Maine	62.5	lowa	49.7	Maine	59.6	Florida	78.2	Georgia	259.9
32	New Jersey	61.2	Connecticut	49.3	Utah	59.5	Maine	77.5	Utah	251.0
33 34	Oklahoma	61.0	New York	49.3	Oregon North Carolina	55.0	Arizona	77.0	Colorado	250.6
34	lowa	60.4	New Mexico	48.6	North Carolina	49.9	Delaware	75.9	Maine	241.4
35	Maryland	60.1	Georgia	48.3	Washington	48.3	North Carolina	75.4	North Carolina	240.2
36 37	Colorado	58.1	Alabama	48.2	Virginia	48.1	California	74.7	Nevada	222.2
37	Utah	56.8	New Hampshire	46.3	Missouri	47.6	Wisconsin	74.7	New Jersey	217.
38	Massachusetts	56.4	South Dakota	45.9	Nevada	45.0	Ohio	74.1	New Hampshire	212.
39	Rhode Island	55.3	Arizona	45.8	California	39.4	Oregon	72.1	District of Columbia	210.2
40	Arizona	54.9	Colorado	43.3	Hawaii	33.2	New Hampshire	71.8	Arizona	207.
41	Texas	54.4	Pennsylvania	43.1	Arizona	29.8	Illinois	71.0	Oregon	202.
42	South Dakota	53.8	Rhode Island	42.8	New Jersey	27.9	Michigan	70.8	Washington	201.
43	Florida	53.2	Maine	42.0	New Hampshire	27.2	New Jersey	69.7	Connecticut	196.
44	District of Columbia	53.0	Florida	41.8	Vermont	24.7	Pennsylvania	65.7	Maryland Florida	195.
45	New York	52.1	Nevada	40.9	Florida	21.4	Vermont	65.1	Florida	194.
46	New Mexico	51.0	Idaho	40.5	Rhode Island	20.2	Maryland	64.0	Vermont	192.
47	Nevada	49.5	Vermont	39.1	Massachusetts	19.3	Connecticut	62.6	Massachusetts	188.
48	Washington	43.0	Oregon	31.6	Connecticut	19.0	Massachusetts New York	60.2	Hawaii California	187.
49	Oregon	42.7	Washington	30.9	New York	16.7		57.3		176.
50	California	30.8	California	30.6 25.4	Maryland	14.2	Rhode Island	52.4	New York	175.
51	Hawaii	20.9	Hawaii	25.4	District of Columbia	7.8	District of Columbia	26.4	Rhode Island	170.6
	United States	58.6	United States	49.6	United States	93.2	United States	82.9	United States	284.4

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data Source: Table by the U.S. Energy Information Administration, State Energy Data System based on population data from the U.S. Census Bureau. See Technical Notes. http://www.eia.gov/state/seds/

 ${\sf R}\$  Table C15. Petroleum consumption estimates, total and per capita, ranked by state, 2022

	Petroleum co	nsumption	Petroleum consump	tion per capita	Petroleum co	nsumption	Petroleum consum	ption per capita
Rank	State	Million barrels	State	Barrels	State	Trillion Btu	State	Million Btu
1	Texas	1,537.4	Louisiana	84.9	Texas	6,729.5	Louisiana	365.
2	California	628.1	Alaska	61.0	California	3.385.3	Alaska	345.
3	Louisiana	389.4	Texas	51.2	Florida	1,893.2	Wyoming	254.
4	Florida	356.2	Wyoming	46.1	Louisiana	1,678.6	North Dakota	224
5	New York	256.3	North Dakota	41.5	New York	1,374.0	Texas	224
6	Illinois	227.1	Hawaii	30.2	Illinois	1,192.2	Hawaii	171.
7	Pennsylvania	224.9	Montana	30.0	Pennsylvania	1,149.7	Montana	161
8	Ohio	203.0	lowa	28.4	Ohio	1,077.6	lowa	139
9	Goorgia	105.0	South Dakota	25.7	Goorgia	981.1		136
10	Georgia North Carolina	185.2 181.7	Kentucky	25.7 25.6	Georgia North Carolina	948.0	Mississippi South Dakota	135
11	Michigan	165.8	Mississippi	25.3	Michigan	862.4	Oklahoma	134
	Virginia	157.6	Oklahoma	24.7	Virginia	833.2	Kentucky	133
12		157.0		24.7	Virginia	833.2	Nemucky	133
13	New Jersey	150.1	Maine	23.6	New Jersey	801.8	New Mexico	125.
14	Tennessee	139.0	Nebraska	23.4	<u>Washington</u>	750.2	Nebraska	125
15	Washington	137.2	New Mexico	23.3	Tennessee	740.2	Maine	124.
16	Indiana	135.6	Alabama	22.7	Indiana	727.7	Kansas	122.
17	Missouri	121.6	Kansas	22.5	Arizona	638.7	Alabama	119.
18	Arizona	120.2 115.9 115.5	West Virginia	22.5	Missouri	634.9	West Virginia	118
19	Minnesota	115.9	Vermont	22.3	Minnesota	609.6	Vermont	114
20	Kentucky	115.5	New Hampshire	21.7	Alabama	608.6	Delaware	114
21	Alabamá	115.3	Delaware	21.2	Kentucky	600.7	Arkansas	112
22	Colorado	111.3 108.0	Arkansas	21.0	Colorado	591.1	New Hampshire	110
23	Wisconsin	108.0	Minnesota	20.3	Wisconsin	560.5	Minnesota	106
24	Massachusetts	103.5	Indiana	19.9	Massachusetts	550.2	Indiana	106
25	Oklahoma	99.3	Tennessee	19.7	Oklahoma	539.4	Tennessee	105
26	South Carolina	98.5	Missouri	19.7	South Carolina	519.3	Missouri	103
20		91.0		19.1				
27	lowa		Idaho		lowa	446.9	Idaho	101
28	Maryland	82.5	Colorado	19.1	Maryland	432.1 399.9	Colorado	101.
29	Mississippi	74.4	South Carolina	18.6	Mississippi	399.9	Nevada	99.
30	Kansas	66.0	Nevada	18.5	Kansas	358.3	South Carolina	98.
31	Oregon	65.2	Wisconsin	18.3	Oregon	346.4	Utah	98.
32	Arkansas	63.9	Virginia	18.2	Arkansas	341.6	Washington	96.
33	Utah	61.4	Utah	18.1	Utah	331.5	Virginia	96.
34	Connecticut	59.9	Illinois	18.1	Connecticut	317.3	Wisconsin	95.
35	Nevada	58.7	Washington	17.6	Nevada	314.6	Illinois	94
36	New Mexico	49.2	Pennsylvania	17.3	New Mexico	265.2	Ohio	91.
37	Nebraska	46.1	Ohio	17.3	Alaska	253.5	Georgia	89
38	Alaska	44.8	North Carolina	17.0	Nebraska	246.4	Georgia North Carolina	88
39	Hawaii	43.4	Georgia	17.0	Hawaii	246.2	Pennsylvania	88
40	West Virginia	39.8	Connecticut	16.6	West Virginia	210.2	Connecticut	87
41	Idaho	33.0 37.1	Michigan	16.5	Idaho	196.7	Arizona	86
	Montana	37.1 33.6 32.9	Arizona			181.0	California	86
42 43	Maine	33.0	New Jersey	16.3 16.2	Montana North Dakota	175.2	New Jersey	86
44	North Dakota	32.3	California	16.1	Maine	173.2		86
44 45	New Hampshire	30.3	Florida	16.0	New Hampshire	155.0	Michigan Florida	85
45		30.3			New Hampshire	155.0	Piorida	85
46	Wyoming	26.8	Oregon	15.4	Wyoming	148.1	Oregon	81
47	South Dakota	23.4	Massachusetts	14.8	South Dakota	123.6	Massachusetts	78
48	Delaware	21.6	Rhode Island	14.1	Delaware	116.4	Rhode Island	75
49	Rhode Island	15.4	Maryland	13.4	Rhode Island	82.4	Maryland	70
50	Vermont	14.4	New York	13.0	Vermont	74.1	New York	69
51	District of Columbia	3.5	District of Columbia	5.2	District of Columbia	18.9	District of Columbia	28
	United States	7,303.7	United States	21.9	United States	36,943.7	United States	110

Note: Petroleum includes biofuels blended into petroleum products and biofuels product supplied. U.S. total includes other biofuels not allocated to the states.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: Table by the U.S. Energy Information Administration, State Energy Data System based on population data from the U.S. Census Bureau. See Technical Notes. http://www.eia.gov/state/seds/

Table C16. Natural gas consumption estimates, total and per capita, ranked by state, 2022

	Natural gas c	consumption	Natural gas consu	mption per capita	Natural gas c	onsumption	Natural gas consur	nption per capita
Rank	State	Billion cubic feet	State	Thousand cubic feet	State	Trillion Btu	State	Million Btu
1	Texas	4,889.4	Alaska	606.9	Texas	4,982.3	Alaska	597.2
2	California	2.058.9	Louisiana	443.6	California	2,130.9	Louisiana	452.0
3	Louisiana	2.035.0	Wyoming	280.4	Louisiana	2,073.7	Wyoming	296.7
4	Pennsylvania	1.868.8	North Dakota	241.0	Pennsylvania	1,937.9	North Dakota	255.0
5	Florida	1.619.2	Mississippi	205.7	Florida	1.659.7	Mississippi	211.7
6	New York	1.359.9	Oklahoma	188.4	Ohio	1,424.2	Oklahoma	194.8
7	Ohio	1.336.0	Texas	162.8	New York	1,403.4	Texas	165.9
8	Illinois	1.102.6	Alabama	150.5	Illinois	1.150.0	West Virginia	160.6
9	Michigan	1,029.5	West Virginia	147.8	Michigan	1,088.2	Alabama	155.2
10	Indiana	871.3	Pennsylvania	144.1	Indiana	916.6	Pennsylvania	149.4
11	Georgia	789.9	New Mexico	138.6	Georgia	812.8	Iowa	146.
	Alabama	763.6	lowa	136.9	Alabama	787.2	New Mexico	142.9
12 13	Oklahoma	757.1	Arkansas	127.7	Oklahoma	782.8	Indiana	134.2
14	New Jersey	727.4	Indiana	127.5	New Jersey	755.0	Arkansas	130.5
15	North Carolina	724.7	Ohio	113.6	North Carolina	747.2	Ohio	121.1
16	Virginia	634.9	South Dakota	105.4	Virginia	666.0	South Dakota	113.5
17	Mississippi	604.6	Kansas	105.1	Mississippi	622.2	Kansas	108.5
18	Wisconsin	594.6	Michigan	102.6	Wisconsin	621.9	Michigan	108.5
19	Minnesota	506.5	Wisconsin	100.9	Minnesota	533.9	Wisconsin	105.6
20	Colorado	503.2	Nebraska	95.7	Colorado	530.4	Nebraska	101.1
21	Arizona	454.0	Nevada	91.3	Arizona	468.0	Nevada	95.1
22	Alaska	445.0	Minnesota	88.6		467.5	Minnesota	93.4
23	lowa	438.1	Illinois	87.6	Iowa Tennessee	440.0	Illinois	93. <sup>2</sup> 91. <sup>2</sup>
24		427.6	Colorado	86.2	Alaska	437.9	Colorado	90.8
	Tennessee	427.6		85.2		437.9		89.3
25 26	Massachusetts	389.1	Kentucky Delaware	85.2	Massachusetts	432.5 402.7	Kentucky Delaware	89.0
	Arkansas	389.1		85.2	Kentucky			88.0
27	Kentucky	384.2	Rhode Island	83.3	Arkansas	397.7	Rhode Island	85.8
28	Washington	351.0	Connecticut	82.7	Washington	381.9	Connecticut	85.1
29 30	South Carolina	350.7	Utah	81.2 79.6	South Carolina	361.3 322.5	Utah	84.9 83.7
30	Missouri	315.6	Montana	79.6	Missouri		Montana	83.7
31	Kansas	308.6	New Jersey	78.5	Kansas	318.7	New Jersey	81.5
32	Maryland	298.9	Virginia	73.2	Maryland	310.6	Virginia	76.7
33	Connecticut	298.3	Florida	72.8	Connecticut	307.2	Florida	74.6
34	New Mexico	292.9	Georgia	72.4	Nevada	302.3	Georgia	74.5
35	Nevada	290.1	Idaho	71.5	New Mexico	302.0	Idaho	73.2
36 37	Oregon	279.2	New York	69.1	Oregon	297.6	New York	71.3
	Utah	274.6	North Carolina	67.8	Utah	287.0	Oregon	70.2
38	West Virginia	262.3	South Carolina	66.4	West Virginia	284.8	North Carolina	69.9
39	Nebraska	188.3	Oregon	65.9	Nebraska	199.0	South Carolina	68.4
40	North Dakota	187.7	Arizona	61.6	North Dakota	198.6	<u>A</u> rizona	63.5
41	Wyoming	163.1	Tennessee	60.7	Wyoming	172.5	Tennessee	62.4
42	Idaho	138.6	Massachusetts	60.1	Idaho	141.9	Massachusetts	61.9
43	South Dakota	95.9	California	52.7	South Dakota	103.2	California	54.6
44	Rhode Island	91.1	Missouri	51.1	Montana	94.0	Missouri	52.2
45	Montana	89.4	Maryland	48.5	Rhode Island	93.8	Maryland	50.4
46	Delaware	86.8	Washington District of Columbia	45.1	Delaware	89.7	Washington	49.1 45.0
47	Maine	60.0	District of Columbia	43.5	Maine	62.6	Maine	45.0
48	New Hampshire	58.1	Maine	43.2	New Hampshire	60.1	District of Columbia	45.0
49	District of Columbia	29.2	New Hampshire	41.6	District of Columbia	30.2	New Hampshire	43.0
50	Vermont	13.5	Vermont	20.8	Vermont	14.0	Vermont	21.7
51	Hawaii	3.0	Hawaii	2.1	Hawaii	2.7	Hawaii	1.9
	United States	32,261.8	United States	96.8	United States	33,410.9	United States	100.3

Note: Natural gas includes supplemental gaseous fuels that are commingled with natural gas.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: Table by the U.S. Energy Information Administration, State Energy Data System based on population data from the U.S. Census Bureau. See Technical Notes. http://www.eia.gov/state/seds/

R Table C17. Electricity sales to ultimate customers, total and residential, total and per capita, ranked by state, 2022

	Tota	al	Total per	capita	Reside	ntial	Residential	per capita
Rank	State	Billion kilowatthours	State	Kilowatthours	State	Billion kilowatthours	State	Kilowatthours
1	Texas	475.4	North Dakota	32.600	Texas	170.6	Louisiana	6,85
2	California	251.9 248.8	Wyoming	32,600 28,368	Florida	134.2	North Dakota	6.76
3	Florida	248.8	Louisiana	20,736	California	89.5	Alabama	6,48
4	Ohio	149.5	West Virginia	18.594	North Carolina	62.4	Mississippi	6.43
5	Pennsylvania	145.0	Oklahoma	17,288 17,197	Georgia	61.1	Oklahoma	6.33
6	Georgia	145.0	Nebraska	17.197	Pennsylvania	56.4	Arkansas	6,33 6,3
7	New York	143.2	Alabama	17,152	Ohio	53.3	West Virginia	6,2
8	North Carolina	139.2	lowa	17,152 16,940	New York	52.2	Tennessee	6,18
9	Illinois	135.9	Kentucky	16,699	Virginia	46.7	South Carolina	6,1
10	Virginia	132.3	Mississippi	16,666	Illinois	46.5	Florida	6,03
11	Tennessee	102.1	Arkansas	16,084	Tennessee	43.6	Missouri	6,02
12	Michigan	100.6	Texas	15 831	Washington	39.8	Kentucky	5,94
13	Indiana	100.0	South Carolina	15,665 15,264 15,239	Arizona	38.4	South Dakota	5,85
14	Louisiana	95.1	District of Columbia	15,005	Missouri	37.2	North Carolina	5,83
15	Washington	90.9	Virginia	15 230	Michigan	35.0	Texas	5,68
16	Alabama	87.0	South Dakota	14,801	Indiana	34.1	Georgia	5,60
17	Arizona	84.2	Indiana	14,643	Alabama	32.9	Nebraska	5,50
18	South Carolina	82.8	Tennessee	14,486	South Carolina	32.3	Virginia	5,58 5,38
19	Missouri	02.0	Kansas	14,400	Louisiana	31.4	Montana	5,2 <sup>2</sup>
20		80.3 75.3		14,288 13,878		30.1		5,20 5,20
20	Kentucky	75.3	Montana	13,878	New Jersey	30.1	Arizona	5,20
21	New Jersey	74.4	Idaho	13,513 13,290	Maryland	28.1	Wyoming	5,17
22	Wisconsin	69.9	Georgia	13,290	Kentucky	26.8	Idáho	5,13
23	Oklahoma	69.5 66.6	Oregon	13,287 13,015	Oklahoma	25.5	Delaware	5,11
21 22 23 24 25 26	Minnesota	00.0	North Carolina	13,015	Minnesota	23.4	Washington	5,11
25	Maryland	59.7	Missouri	13,000 12,849	Wisconsin	22.9	Indiana	4,98
26	Colorado	56.8	New Mexico	12,849	Oregon	20.7	Kansas	4,91
27	Oregon	56.3	Ohio	12,713	Colorado	20.6	Oregon	4,88
28	lowa	54.2	Nevada	12,375	Massachusetts	20.0	lowa	4,74
28 29 30	Massachusetts	51.0	Wisconsin	11,862 11,677	Arkansas	19.3	Maryland	4,55 4,55
30	Arkansas	49.0	Washington	11,6//	Mississippi	18.9	Ohio	4,53
31	Mississippi	49.0	Minnesota	11,661 11,431	lowa	15.2	Nevada	4,50
32	Kansas	42.0	Arizona	11,431	Kansas	14.4	Pennsylvania	4,34
33 34 35 36 37	Nevada	39.3	Delaware	11,319	Nevada	14.3	Minneśota	4,09
34	Nebraska	33.8	Florida	11,185	Connecticut	13.2	Wisconsin	3,88
35	Utah	33.8 33.4 33.0	Pennsylvania	11,181 10,798	Utah	11.3	District of Columbia	3,75
36	West Virginia	33.0	Illinois	10,798	West Virginia	11.1	Illinois	3,69
37	Connecticut	27.81	Michigan	10,031	Nebraska	11.0	Maine	3,66
38	New Mexico	27.2	Utah	9,868	Idaho	10.0	Connecticut	3,65
39	Idaho	26.2	Colorado	9,718	New Mexico	7.3	Colorado	3,52
40	North Dakota	25.4	Maryland	9.682	Montana	5.9	Michigan	3.49
41	Wyoming	16.5	Maine	8,548	South Dakota	5.3	New Mexico	3,44 3,43
42	Montana	15.6	Vermont	8,454	North Dakota	5.3	New Hampshire	3,43
43	South Dakota	13.5	Alaska	8,185	Delaware	5.2	Vermont	3,37
44	Maine	11.9	New Jersey	8,185 8,038	Maine	5.1	Utah	3,37 3,35
45	Delaware	11.5	New Hampshire	7.733	New Hampshire	4.8	New Jersey	3.24
46	New Hampshire	10.8	Connecticut	7.694	Rhode Island	3.2	Rhode Island	2.89
47	District of Columbia	10.2	Massachusetts	7.301	Wyoming	3.0	Massachusetts	2.86
48	Hawaii	10.2 9.0	New York	7.279	Hawaii	2.7	Alaska	2,86 2,79
49	Rhode Island	7.6	Rhode Island	7,301 7,279 6,926	District of Columbia	2.5	New York	2,65
50	Alaska	6.0	California	6,451	Vermont	2.2	California	2,29
51	Vermont	5.5	Hawaii	6,280	Alaska	2.1	Hawaii	1,90
	3	0.0		3,200		2.1		1,00
	United States	3,927.2	United States	11,784	United States	1,509.2	United States	4,52

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data Source: Table by the U.S. Energy Information Administration, State Energy Data System based on population data from the U.S. Census Bureau. See Technical Notes. http://www.eia.gov/state/seds/

## United States Consumption Tables

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, United States

							Petroleum								
	Coal	Net imports of coal coke	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Milli short		Billion cubic feet				Million barrels					Billion kilowatthours		Million	barrels
1960	398	(s)	11,967	685	227	136	1,453	559	525	3,586	1	149	0	NA	NA
1965	472	-1	15,280	776	307	220	1,676	559 587	636 722	4 202	4	197	Ō	NA	NA
1970 1971	523 502	-2 -1	21,139 21,793	927 971	447 457	353 369	2,111 2,195	804 838	722 722	5,364 5,553	22 38	251 270	0	NA NA	NA NA
1972	524	-1	22,101	1.066	520	382	2,193	926	762	5,990	54	276	0	NA NA	NA NA
1973	524 563	(s)	22.049	1,066 1,129	520 531	387	2.436	1 030	805	6.317	83	275	0	NA	NA
1974	558	2	21,223	1,076	519	363	2,386	963 899	771 723	6,078	114	304	0	NA	NA
1975 1976	563 604	1 (s)	19,538	1,041 1,147	493 515	365 361	2,436	1 025	723 780	5,958 6 301	173 191	303	0	NA NA	NA NA
1977	604 625	(3)	19,946 19,521	1,223	519	361 379	2,554 2,620	1,025 1,121	789 866	6,391 6,727	251	287 224	0	NA NA	NA NA
1978	625	5	19.627	1.253	516	386	2,705 2,568	1.103	917	6.879	276	283	0	NA	NA
1979	681	3	20,241	1,208	607	393	2,568	1,032	949	6,757	255	283	0	NA	NA
1980 1981	703 733	-1 -1	19,877 19,404	1,049	582 578	391 368	2,408 2,404	918	895 717	6,242 5,861	251 273	279 264	0	NA 2	NA NA
1982	733 707	-1	18.001	1,032 975	578 584	370	2.387	762 627	641	5,861 5,583	283	312	0	2 5	NA NA
1983	737 791	-1	16,835 17,951	982	561 623	382	2,417 2,449	519	699 711	5,559 5,756	294	335 324	(s)	10	NA
1984	791	(s)	17,951	1,041	623	430	2,449	501	711	5,756	328	324	(s)	12	NA
1985 1986	818 804	-1 -1	17,281 16,221	1,047 1,064	628 594	445 477	2,493 2,567	439 518	688 722	5,740 5,942	384 414	284 294 253	(s)	15 17	NA NA
1987	837		17.211	1.086	638	506	2.630	462	761	6.083	455	253	(s)	19	NA
1988	884	(s) 2	18,030	1,143	651 653	530 544	2,685	504	812	6,326	527	226 272	(s) 2	20	NA
1989	895	1 (-)	19,119	1,152	653	544	2,675	500 449	800	6,324	529 577	272	2 3	20	NA
1990 1991	904 899	(s) (s)	19,174 19,562	1,103 1,066	622 680	556 537	2,641 2,623	449 423	831 771	6,201 6,101	613	293 289	3	18 21	NA NA
1992	908	1	20,228	1.090	712	532	2.660	401	839	6.234	619	253	3	23	NA
1993	944 951	1	20,790	1,110	705	536 557	2,729	394	839 817	6,234 6,291	610	280	3	23 27	NA
1994	951 962	2	21,247 22,207	1,154 1,170	759	557 553	2,774	373 311	849	6,467 6,469	640 673	260 311	3	31 33	NA NA
1995 1996	1,006	2	22,207 22,609	1,170	766 813	578	2,843 2,888	311	826 880	6, <del>4</del> 69 6,701	675	311 347	3	33 24	NA NA
1997	1,030	2	22,737	1,254	815	583	2,926	291	927	6.796	629	356	3	30	NA
1998	1,037	3	22,246	1,254 1,263	776	583 592	2,926 3,012	291 324	927 937	6,796 6,905	629 674	356 323	3	33 34	NA
1999 2000	1,039 1,084	2	22,405	1,304	880 891	611 631	3,077	303 333	950 893 922 923 955	7,125 7,211	728 754	320 276	4	34 39	NA NA
2000	1,084	3	23,333 22,239	1,362 1,404	803	604	3,101 3,143	296	922	7,211 7,172	754 769	276 217	5 7	39 41	IVA (s)
2002	1,066	ż	23,027	1,378	838	589	3,229 3,261	255 282	923	7,213	780	264	10	49	(s)
2003	1,095	2	22,277	1.433	805	576	3,261	282	955	7.312	764	276	11	67	(s) (s) (s)
2004 2005	1,107 1,126	6 2	22,403 22,014	1,485 1,503	829 783	597 613	3,333 3,343	316 336	1,028 1,015	7,588 7,593	789 782	268 270	14 18	85 97	1
2005	1,120	2	22,014	1,503	763 779	596	3,343	251	1,015	7,593 7,551	787	289	16 27	131	6
2007	1,128	1	23,104	1,522 1,532	800	592	3,377 3,389	251 264	1,025 972	7,551 7,548	806	248	27 34 55 74 95	164	2 6 8 7
2008	1,120	2	23,277	1 444	748	563	3,290	228	863 771	7,136	806	255 273	55	231	
2009 2010	997 1,049	-1 (a)	22,910 24,087	1,325 1,387	776 826	509 523	3,290 3,284 3,282	187 195	771 787	7,136 6,852 7,000	799 807	273 260	74	263 306	8
2010	1,049	(s) (s)	24,067 24 477	1,307	020 821	523 520	3,262 3,195	168	767 769	7,000 6.897	790	319	120	307	21
2012	1,003 889	(s)	24,477 25,538	1,423 1,369	821 839	520 512	3,178	135	769 732	6,897 6,765	769	276	141	307	21 21
2013	924	-1	26,155 26,593 27,244	1 397	913	524 537 565	3,228	116	745 720 730	6,923 6,972 7,129	789	269 259 249	168	315	34
2014 2015	918 798	-1 -1	26,593	1,474 1,458	892 931	537	3,256 3,350	94 95	720 720	6,972	797 797	259	182 191	320 332	34 34 36 50 47 45 43
2015	796 731	-1 -1	27,244	1,436	930	591	3.410	119	738	7.207	806	268	227	342	50
2017	717	-i	27,140	1,435	963	614	3,404	125	738 742	7,282	805	268 300	227 254	345	47
2018	688	-1	30,149	1,513	1,100	623	3,405	116	729	7,487	807	293 288	273	343	45
2019 2020	587 477	-1 -1	31,143 R 30,603	1,498 1,386	1,146 1,181	636 394	3,398 2,946	100 76	720 673	7,498 6,656	809 790	288 285	296 338	346 302	43
2020 2021	477 546	-1 -2	R 30,646	1,386	1,181	500	2,946 3,218	115	722	7,260	R 780	255 252	338	302	45 41
2022	516	-2	32,262	1,469	1,225	569	3,216	120	704	7,304	772	255	434	332 334	41 39

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

Beginning in 1993, includes fuel ethanol blended into motor gasoline.
Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

separately identified.

h Includes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available. Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, United States (trillion Btu)

						Fossil fuels							Fossil fuels	
							Petroleum					(	as commingled)	
Year	Coal	Net imports of coal coke	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	9,831	-6	12,385	3.992	866	739 1,215 1,973 2,061 2,141 2,167	7,631	3,517	3,129	19,874	42,084	12.385	3,992	7.631
1965 1970 1971	11,582 12,269 11,603	-18	15,779 21,693 22,365	3,992 4,519 5,401 5,658 6,210 6,575 6,267 6,061 6,679 7,126 7,296 7,039 6,110 6,014 5,679	1,170	1,215	8.806	3,691	3.784	23,184	50,527	12,385 15,779 21,693 22,365 22,682 22,595 21,730 19,977 20,381 19,972	4,519 5,401 5,658	7,631 8,806 11,091 11,532 12,259 12,797 12,535 12,798 13,415 13,760
1970	12,269	-18 -58 -33 -26 -7 56 14 (s)	21,693	5,401	1,170 1,667	1,973	11.091	3,691 5,057 5,269 5,820 6,477 6,056 5,649 6,445 7,047 6,936 6,485 5,772 4,791 3,939 3,260 3,151 2,759 3,255 2,901	4,312	23,184 29,500 30,541 32,919 34,806 33,421 32,699 35,142 37,083 37,919 37,076 34,160 31,884 30,180	50,527 63,404	21,693	5,401	11,091
1971	11,603	-33	22,365	5,658	1.700	2,061	11,532	5,269	4,322	30,541	64.477	22,365	5,658	11,532
1972	12,110 12,960	-26	22,682 22,595	6,210	1,927 1,959	2,141	12,259 12,797	5,820	4,563	32,919	67,685 70,354	22,682	6,210 6,575	12,259
1973 1974	12,960	-/	22,595 21,730	6,5/5	1,959 1,914	2,167	12,797	6,4//	4,831 4,619	34,806	70,354	22,595	6,5/5	12,797
1974	12,651 12,656	14	19,977	6,207 6,061	1,811	2,030	12,535 12,798	0,000 5,640	4,019	33,421 22,600	67,857 65,345	21,730	0,207 6.061	12,333
1976	13,576	(s)	20.381	6,679	1,877	2,030 2,047 2,026 2,126 2,164 2,204 2,190 2,062 2,072	13,415	6 445	4,332 4,700	35,033	69,099	20.381	6,267 6,061 6,679 7,126	13 415
1977	13.907	15	20,381 19,972	7.126	1.867	2,126	13.760	7.047	5.156	37.083	70,977	19.972	7,126	13.760
1978	13,770 15,042 15,461	125	20,068 20,688 20,227	7,296	1,848 2,214 2,135	2,164	14,211 13,487 12,648	6,936	5,464 5,646 5,304	37,919	71.881	20,068	7,296 7,039 6,110	14,211 13,487 12,648
1979	15,042	63	20,688	7,039	2,214	2,204	13,487	6,485	5,646	37,076	72,868	20,688	7,039	13,487
1980	15,461	125 63 -35 -16	20,227	6,110	2,135	2,190	12,648	5,772	5,304	34,160	69,812	19,972 20,068 20,688 20,384 19,928 18,515 17,348 18,503 17,843 16,718	6,110	12,648
1981 1982	15,938 15,269	-16	19,750 18,367	6,014	2,098 2,095	2,062	12,631 12,538	4,791	4,289 3,858	31,884	67,555 63,794	19,928	6,014 5,679	12,646 12,631 12,538 12,697 12,867 13,098 13,487 13,816
1982 1983	15,269	-22 -16	18,367	5,679	2,095 1,983	2,072	12,538	3,939	3,858	30,180	63,794	18,515	5,679	12,538
1984	15,867 17,014	-16 -11	17,212 18,390	5,720 6,065	2 220	2,141	12,697 12,867	3,∠60 3.151	4,196 4,267	29,997	63,061 66,385	17,340	5,720 6,065	12,097
1985	17,540	-13	17,714	5,720 6,065 6,098 6,196 6,328	2,230 2,252	2,414	13,098	2 759	4,207	29,997 30,993 30,867 32,151 32,818	66,107	17,303	6,003	12,007
1986	17,241	-13 -17 9	16,603	6.196	2,158	2.682	13.487	3,255	4,164 4,372 4,591	32.151	65.978	16,718	6,098 6,196 6,328	13.487
1986 1987	17,241 17,950	9	16,603 17,647	6,328	2,158 2,339	2,843	13,487 13,816	2,901	4,591	32,818	65,978 68,424	17,750	6,328	13,816
1988 1989	18,886 19,055	40 30 5	18,460 19,607	6,655 6,712 6,422 6,210 6,351 6,466 6,718 6,812 7,168 7,298 7,352 7,587 7,927	2,373 2,403	2,982	14,105 14,050	3,170 3,144 2,820 2,657 2,518 2,479 2,342 1,955 1,952 1,828 2,036 1,905 2,091	4,888 4,797	34,174	71,559 72,858	18,563 19,716 19,752 20,148 20,844 21,376 21,876 22,833 23,262	6,655 6,712 6,422 6,210 6,351 6,466 6,718 6,812 7,168 7,298 7,352 7,587 7,927	14,105 14,050 13,872 13,781 13,973 14,236
1989	19,055	30	19,607	6,712	2,403	3,059	14,050	3,144	4,797	34,165	72,858	19,716	6,712	14,050
1990	19,168	5	19,628 20,033	6,422	2,259	3,129	13,872 13,781	2,820	4,999	33,501	72,301 71,822	19,752	6,422	13,872
1991 1992	18,989 19,118	10	20,033 20,724	6,210	2,259 2,466 2,595 2,557	3,025	13,781	2,657	4,651 5,031	32,790	71,822 73,345	20,148	6,210	13,781
1993	19,836	27	20,724	6,331	2,595	3,001	13,973 14,141 14,360	2,310	4,920	33,409	74,710	20,044	6,331 6,466	14 236
1994	19 904	58	21,255 21,757	6 718	2,777	3 154	14 360	2,342	5 107	34 458	76,177	21,870	6 718	14 466
1995	20,099 21,002	61	22.721	6.812	2,791	3.132	14,680 14,967	1.955	5,107 4,976 5,280	34.346	77.226	22.833	6.812	14,466 14,794 15,049
1996	21,002	23	22,721 23,151	7,168	2.951	3,274	14,967	1,952	5,280	35,593	77,226 79,769	23,262	7,168	15,049
1997 1998	21,444 21,583	46	23,372 22,912	7,298	2,956 2,809	3,308	15 127	1,828	5,552 5,611	36,069	80,932 81,286	23,477	7,298	15,231
1998	21,583	67	22,912	7,352	2,809	3,357	15,559 15,889 15,991	2,036	5,611	36,724	81,286	23,477 23,016 23,026 23,907	7,352	15,231 15,674 16,008 16,127
1999	21,582 22,576	58	22,925 23,815	7,587	3,193 3,216	3,462	15,889	1,905	5,701 5,352	37,737	82,302 84,613	23,026	7,587	16,008
2000 2001	22,576	65	23,815 22,748	7,927	3,216	3,580	15,991 16,201	2,091	5,352	38,157	84,613 82,771	23,907	7,927	16,127
2001	21,906 21,903	29 61	23,514	8,170 8,020	2,895 3,006	3,420	16,619	1,001	5,534 5,532	30,000 38 122	83,599	22,030	0,170 8.020	16,343
2003	22 323	10 35 27 58 61 23 46 67 58 65 29 61	22,823	8 341	2 905	3 265	16,715	1,861 1,605 1,772 1,990 2,111	5,715	38 713	83,909	22,836 23,582 22,891 22,988 22,632	8,170 8,020 8,341 8,642 8,745	16,345 16,790 16,949 17,316 17,358
2004 2005	22,323 22,464 22,793	138 44 61 25 41	22,927 22,567	8.642	2,905 2,976 2,812	3.383	16,715 17,023 17,022	1,990	6,136 6,062	40.148	85,678 85,632	22.988	8.642	17.316
2005	22,793	44	22,567	8,745	2,812	3,475	17,022	2,111	6,062	40,227	85,632	22,632	8,745	17,358
2006 2007	22,444 22,748 22,383	61	22,225 23,671	8,831	2,768 2,835	3,379	17,058 16,859	1,581 1,659 1,432 1,173 1,228 1,058	6,127 5,815	39,743	84,474 85,828	22,293 23,735 23,898 23,487	8,831	17,511 17,428 16,799 16,714
2007	22,748	25	23,671	8,858	2,835	3,358	16,859	1,659	5,815	39,384	85,828	23,735	8,858	17,428
2008	22,383 19,691	41 -24	23,836 23,421	8,346	2,656 2,707	3,193	15,999 15,805	1,432	5,165 4,618	36,792	83,051	23,898	8,346	16,799
2009 2010	19,691 20,828	-24 -6	23,421 24,568	7,594	2,707	2,883	15,805	1,1/3	4,618 4,713	34,780	77,868 80,711		7,657 9,011	16,714
2010	19 664	-0 11	24,300	7,900 8 000	2,811	2,903	15,570 15,110	1,220	4,713	34,640	79,268	25,034	0,011 8 211	16,032
2012	19,664 17,381	4	24,954 26,076	7 783	2 887	2 901	15 022	849	4,611 4,393	33 833	77 294	26 138	7 897	16,175
2013	18.039	-17	26,789	7.838	3,166	2,969	15,240	731	4,455	34.398	79,209	26.845	8.051	16.332
2014	18,039 17,997	-22	26,789 27,377	8,283	3,166 3,067	2,141 2,414 2,497 2,682 2,843 2,982 3,059 3,129 3,025 3,001 3,028 3,154 3,132 3,578 3,462 3,580 3,340 3,265 3,383 3,475 3,358 3,193 2,963 2,963 2,961 2,969 3,042	15,240 15,361	731 590	4,455 4,315	34,658	79,209 80,010	27,439	8,831 8,858 8,346 7,657 8,011 8,211 7,897 8,051 8,492	16,632 16,175 16,085 16,332 16,473
2015 2016	15,549 14,227	-18	28,180	8,178	3,221 3,184	3,204	15,788	595	4,381 4,506	35,368	79,079 78,313	28,241	8,403	16,941
2016	14,227	-19	28,180 28,393 28,057	7,871	3,184	3,350	15,788 16,051 16,002 16,013	595 751 784 729	4,506	35,712	78,313	24,034 25,015 26,138 26,845 27,439 28,241 28,453 28,126 31,236	8,170	16,941 17,238 17,201 17,209
2017	13,840	-29	28,057	7,981	3,272	3,481	16,002	784	4,523	36,044	77,912 81,280	28,126	8,263	17,201
2018 2019	13,250 11,315	-26	31,163 32,236	8,453 9 276	3,720 3,897	3,533	16,013	729 631	4,446 4,395	36,892	81,280	31,236	8,715	17,209
2019 2020	9 183	-∠I -13	3∠,∠36 R 31 655	0,370 7 721	3,09 <i>1</i> 3,956	3,000 2,23 <i>1</i>	13,834	478	4,395 4,110	30,00 <i>1</i> 32,333	80,397 R 73,158	B 31 721	0,0∠0 7 975	17,100
2021	9,183 R 10,549	-17 -22 -18 -19 -29 -26 -21 -13	R 31,655 R 31,688	8,341 8,642 8,745 8,831 8,858 8,346 7,594 7,966 8,099 7,783 7,838 8,178 7,871 7,981 8,453 8,376 7,721 8,243 8,358	3,956 4,230	3,204 3,350 3,481 3,533 3,608 2,234 2,835 3,228	15,960 13,834 15,095	721	4,391	34,174 34,165 33,501 32,790 33,469 33,592 34,458 34,346 35,593 36,069 36,724 37,737 38,157 38,088 38,122 38,713 40,148 40,227 39,743 39,384 40,1227 39,743 39,384 36,792 34,640 33,833 34,588 35,571 34,668 35,571 36,867 32,333 35,282 36,867 32,333 35,282	R 77,440	32,300 R 31,721 R 31,758	8,492 8,403 8,170 8,263 8,715 8,626 7,975 8,357 8,471	17,166 14,883 16,250
2022	9,886	-56	33,334	8 358	3,957	3 228	15,073	756	4,296	35,332	78,496	33,411	8 471	16,236

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
 Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products"

category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for

seach type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, United States (continued) (trillion Btu)

						R	lenewable energ	у						
					Bior	nass								
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f,j</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,k</sup>	Wind	Total <sup>f,j</sup>	Electricity net imports <sup> </sup>	Total <sup>f,j</sup>
1960	6	R 510	1,320	NA	NA	NA	NA	1,320	(s) R 1	NA	NA	R 1,830	15	R 43,935
1965 1970	43	R 672 R 856	1,335	NA	NA	NA	NA	1,335	Rí	NA	NA NA	R 2,008 R 2,289	(s) 7	R 52,578 R 65,939 R 67,256 R 70,745
1970 1971	239 413	R 920	1,431 1,432	NA NA	NA NA	NA NA	NA NA	1,431	R 2 R 2	NA NA	NA NA	R 2,289	12	R 65,939
1972	584	H 0/1	1,503	NA	NA	NA	NA	1,432 1,503	R <sub>5</sub>	NA	NA	R 2,354 R 2,449	12 26	R 70,745
1973	910	R 940	1,529	NA	NA	NA	NA	1,529	R <sub>7</sub>	NA	NA	H 2 476	49	R 73,788
1974 1975	1,272 1,900	R 940 R 1,038 R 1,034 R 979	1,540	NA	NA NA	NA NA	NA NA	1,540 1,499	R 8 R 11	NA NA	NA NA	R 2,586	43 21	R 73,788 R 71,759 R 69,810
1975	2,111	R 979	1,499 1,713	NA NA	NA NA	NA NA	NA NA	1,499	B 10	NA NA	NA NA	R 2,544 R 2,705	29	R 73 944
1977	2,702	R 763 R 967	1,838	NA	NA	NA	NA	1,838	R 12	NA	NA	H 2 613	29 59 67	R 73,944 R 76,351 R 77,988 R 78,844
1978	3,024	R 967	2.038	NA	NA	NA	NA	2.038	H 10	NA	NA	H 3 015	67	R 77,988
1979 1980	2,776 2,739	R 966 R 953	2,152 2,472	NA NA	NA NA	NA NA	NA NA	2,152 2,472	R 13 R 17	NA NA	NA NA	R 3,131 R 3,442	69 71	n 78,844 R 76,065
1981	3,008	R 900	2,587	NA 7	NA	NA NA	6	2,600	R 19	NA	NA	H 3 519	113	R 76,065 R 74,196 R 70,772 R 70,453
1982	3 131	H 1 066	2 630	19	NA	NA	16 29 35 42	2.665	H 17	NA	NA	R 3,747 R 4,069	100	R 70,772
1983	3,203	R 1,144 R <u>1</u> ,107	2,841	34	NA NA	NA NA	29	2,904	R 21 R 26 R 35 R 37 R 35 R 59 R 63 R 65	NA	(s)	R 4,069 R 4,105	121	H 70,453
1984 1985	3,553 4,076	R 970	2,894 2,923	42 51	NA NA	NA NA	35 42	2,972 3,016	R 32	(s) (s)	(S)	R 4,105	135 140	R 74,177
1986	4,380	R 1,003 R 863	2.825	59 68	NA	NA	48	2.932	R 35	(s)	(s)	R 4,018 R 3,971 R 3,777	122	R 74,451
1987	4,754	R 863	2,755	68	NA	NA	55	2,878	R 37	(s) (s)	(s)	R 3,777	158	R 74,177 R 74,341 R 74,451 R 77,113
1988 1989	5,587 5,602	R 771 R 928	2,892 3,034	69	NA NA	NA NA	55	3,016 3,159	H 35	(s)	(s)	R 3,823 R 4,206	108 37	R 81,077 R 82,703
1909	5,602 6,104	R 999	2,626	69 70 62	NA NA	NA NA	48 55 55 56 49	2,737	R 63	R 56	R 10	R 3,865	8	R 82,278
1991	6,422	H age	2.654	72	NA	NA	56	2.782	R 65	(s) R 52 R 56 R 58	R 10 R 10 R 10 R 10 R 12	H 3 901	67	H 00 010
1992 1993	6,479	R 864 R 957	2,787 2,737	81 95	NA	NA	56 64 74	2,932 2,906	R 67 R 70 R 66 R 60	R 60 R 62 R 63 R 64	R 10	R 3,932 R 4,005	87 95	R 83,843 R 85,220 R 87,080 R 88,732
1993 1994	6,410 6,694	n 957 R 000	2,737 2,839	95 106	NA NA	NA NA	74	2,906 3,028	n 70	n 62 R 62	n 10 R 12	7 4,005 B 4 056	95	R 85,220
1995	7,075	R 888 R 1,061	2.901	114	NA NA	NA NA	86	3,101	R 60	R 64	H 11	R 4,056 R 4,297	134	R 88.732
1996	7 087	R 1,185 R 1,216	3,014 2,919	82 104	NA	NA	61	3.157	R 64	R 65	R 11	R 4,481 R 4,461	153 134 137 116	R 91,474
1997	6,597	H 1,216	2,919	104	NA	NA	82 86 61 80 86 90	3,103	R 64 R 66 R 68 R 71	R 65 R 64 R 63 R 62	R 11	H 4,461	116	R 91,474 R 92,106 R 92,615 R 94,213
1998 1999	7,068 7.610	R 1,103 R 1,090 R 940	2,726 2,754	115 119	NA NA	NA NA	86 90	2,927 2,963	11 68 R 71	R 62	R 10 R 15 R 19 R 23 R 35 R 38	R 4,173 R 4,202	88 99 115	11 92,615 R 94 213
2000	7,862	R'940	2.773	137	NA	NA	99	3.008	н 60	R 59 R 57	R 19	R 4,096 R 3,516	115	R 96,686 R 94,391 R 95,582 R 95,807
2001	8,029	H 740	2,374	144	1	NA	108	2,627	R 69 R 73 R 77	R 57	R <sub>23</sub>	R 3,516	75 72 22 39 85	R 94,391
2002	8,145 7,960	R 902 R 941	2,397 2,403	171 233	2 2	NA NA	130 168	2,701 2,806	H 73 B 77	H 55	H 35	R 3,766 R 3,916	72	H 95,582
2003 2004	8,223	R 916	2,403 2,510	293	3	NA NA	201	3,008	Ran	R 53	R 48	R 4 106	39	R 98 045
2005	8,161	H 022	2,510 2,538	293 335	12	NA	227	3,112	R 84 R 86	R 55 R 54 R 53 R 52 R 54 R 57	R 48 R 61	R 4,106 R 4,231 R 4,480 R 4,595	85	R 98,045 R 98,109 R 97,231 R 98,988
2006	8,215	R 987 R 845	2.496	453 569	33 45	NA	280 369	3,262	H 86 R 91	H 54	R 91 R 118	H 4,480	63 107	H 97,231
2007 2008	8,459 8,426	H 845 R 860	2,502 2,494	569 800	45 30	NA NA	369 519	3,485 3,851	H 91 R 97	R 61	1118 R 189	R 5 068	107 112	R 96,658 R 91,632 R 95,130 R 93,972 R 91,667 R 94,237 R 95,328
2009	8,355	R 869 R 933	2,387	800 910	39 41	NA NA	603	3,940	R 97 R 105 R 111	R 61 R 63 R 68 R 76	R 189 R 252 R 323 R 410	R 5,068 R 5,293	112 116	R 91.632
2010	8,434	R 888 R 1,090 R 943	2,685	1,061	33	NA	727 756	4,506	R 111	R 68	R 323	H 5 896	89 127	R 95,130
2011 2012	8,269	H 1,090	2,675	1,065 1,064	113	8	756 711	4,616 4,517	R 116	H 76	H 410	n 6 308	127	H 93,972
2012	8,062 8,244	H 016	2,618 2,835	1,064 1,092	115 182	10 39	711 714	4,517 4,861	R 117 R 117	R 94 R 120	R 480 R 573	R 6,150 R 6,587	161 197	11 91,667 R 94 237
2014	8,338	R 885 R 850	2,917	1,111	181	38	766	5,016	R 118 R 118	R 161	H 620	R 6,799 R 6,829	182 227	R 95,328
2015	8.337	R 850	2.830	1,153	191	48	791	5.015	R 118	H 196	R 651	R 6,829	227	
2016 2017	8,427 8,419	R 914 R 1,025 R 998	2,730 2,680	1,187 1,199	266 253	57 62	821 847	5,063 5,045	R 117 R 118	R 251 R 329	R 774	R 7,120 R 7,383	227 192	R 94,087 R 93,906 R 97,404
2017	8,419 8,438	1,025 R 998	2,680	1,199	243	57	847 855	5,045 5,105	R 118	H 384	R 868 R 930	H 7 535	152	R 97,404
2019	8.452	H 982	2 680	1.206	231	99	835 735	5.056	R 118 R 116	R 430	H 1 010	H 7 594	133 161	n 96.576
2020	8.251	H 973	R 2 409	1,050	239	107	735	R 4,545	H 118	H 511	R 1,153 R 1,290	H 7 301	161	<sup>H</sup> 88.871
2021 2022	R 8,131 8.046	R 858 869	R 2,420 2,424	1,155 1,163	218 212	158 225	789 808	R 4,751 4,857	R 118 118	R 627 765	<sup>H</sup> 1,290 1.482	R 7,644 8,091	134 141	R 93,350 94,774
2022	0,040	009	2,424	1,103	212	220	000	4,037	110	700	1,402	0,031	141	J4,174

 <sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.
 <sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>9</sup> Wood, Wood-derived titlets, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

Losses and co-products from the production of biodiesel and fuel ethanol.

Beginning in 2014, U.S. total includes other biofuels not allocated to the states.

K Solar thomas and abstraction progray.

k Solar thermal and photovoltaic energy.

 $<sup>^{\</sup>rm I}$  Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for

Series estimates that be alreaded by changing seem solutions of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, United States

		Net					Petroleum				Lindua	Bio	mass						
	Coal	imports- coal coke	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other f,g	Total <sup>g</sup>	Hydro- electric power <sup>h,i</sup>					Electricity <sup>m</sup>		Electrical	
Year		ion tons	Billion cubic feet				Million barrel	s			Billion kilowatt- hours	Wood and waste <sup>i,j</sup>	Losses and co- products <sup>k</sup>	Geo- thermal <sup>i</sup>	Solar <sup>i,l</sup>	Billion kilowatt- hours	End use g,i,n	system energy losses <sup>o</sup>	Total <sup>g,i,n</sup>
1960	221	(s)	10,242	681	227	136	1,453	475	525	3,498	4					688			
1970	203	-2		903	447	353	2,111	493	719	5,026	3					1,392			
1980	133	-1	16,196	1,022	582	389	2,408	527	894	5,821	3					2,094			
1990	122	(s)	15,929	1,086	622	556	2,641	264	826	5,994	3					2,713			
2000 2005	98	3	18,127	1,332	891 783	631 613	3,101 3,343	194	876 974	7,026	4					3,421 3,661			
2005	88 86	2	16,145 15,477	1,483 1,509	763 779	596	3,343	196 194	990	7,393 7,445	3					3,670			
2007	83	1	16,262	1,516	800	592	3,389	201	943	7,442	2					3,765			
2008	80	2	16,609	1,431	748	563	3,290	189	837	7,060	2					3,734			
2009	64	-1	16,038	1,313	776	509	3,284	158	748	6,788	2					3,597			
2010	73	(s)	16,700	1,373	826	523	3,282	171	763	6,938	2					3,755			
2011	70	(s)	16,904	1,412	821	520	3,195	153	745	6,847	2					3,750			
2012 2013	66 66	(s) -1	16,428 17,964	1,360 1,387	839 913	512 524	3,178 3,228	123 104	717 724	6,728 6,879	2					3,695 3,725			
2013	66	-1	18,447	1,459	892	537	3,256	79	699	6,922	1					3,765			
2015	60	-1	17,630	1,446	931	565	3,350	80	711	7,082	1					3,759			
2016	53	-1	17,459	1,410	930	591	3,410	108	717	7,166	1					3,762			
2017	52	-1	17,874	1,426	963	614	3,404	114	725	7,246	2					3,723			
2018	51	-1	19,550	1,499	1,100	623	3,405	103	712	7,443	1					3,859			
2019	48	-1	19,844	1,488	1,146	636	3,398	91	707	7,466	1					3,811			
2020 2021	41 44	-1 -2	R 18,971 R 19,417	1,378 1,439	1,181 1,256	394 500	2,946 3,218	68 106	658 707	6,625 7,225	1					3,718 3,806			
2022	43	-2		1,455	1,225	569	3,216	108	689	7,262	1								
										Trillion Btu									
1960	5,604	-6	10,600	3,969	866	739	7,631	2,987	3,129	19,321	R 12	1,318	NA	NA	NA	2,348	R 39,198	R <sub>4,737</sub>	R 43,935
1970	5,041	-58	17,645	5,260	1,667	1,973	11,091	3,099	4,293	27,383	R 11	1,427	NA	NA	NA	4,751	R 56,200	R 9,739	R 65.939
1980	3,303	-35	16,580	5,952	2,135	2,179		3,312	5,299	31,526	R 11	2,467	NA	NA	NA	7,146	R 60,847	R 15,217	H 76,065
1990	2,909	5	16,419	6,326	2,259	3,129	13,872	1,657	4,969	32,211	R 11	2,310		10	55	9,255	R 63,178	R 19,100	R 82,278
2000	2,356	65	18,590	7,753	3,216	3,580	16,127	1,220	5,254	37,149	R 14 R 11		99	21 34	58 R 50	11,674	R 72,260 R 72,942	R 24,426	R 96,686 R 98,109
2005 2006	2,058 1,984	44 61	16,596 15,899	8,630 8,757	2,812 2,768	3,475 3,379	17,358 17,511	1,235 1,220	5,831 5,924	39,340 39,559	R 10	2,137 2,088	227 280	37	R 52	12,491 12,522		R 25,167 R 24,768	R 97,231
2007	1,943	25	16,707	8,770	2,835	3,358	17,428	1,262	5,653	39,305	R <sub>6</sub>	2,083	369	41	R 55	12,845	R 73,364	R 25,623	R 98,988
2008	1,872	41	17,049	8,274	2,656	3,193	16,799	1,191	5,019	37,132	R <sub>6</sub>	2,063	519	46	R 58	12,740	R 71,507	R 25,151	R 96,658
2009	1,468	-24	16,443	7,587	2,707	2,883	16,714	992	4,486	35,370	R <sub>7</sub>	1,949	603	54	R 59	12,272	R 68,138	R 23,515	R 91,654
2010	1,695	-6	17,083	7,931	2,881	2,963	16,632	1,074	4,576	36,056	R <sub>6</sub>	2,225	727	60	R 64	12,812	R 70,660	R 24,481	R 95,141
2011	1,628	11	17,281	8,148	2,811	2,950	16,175	965	4,472	35,521	R <sub>6</sub>	2,238	756	64	R 70		R 70,313	R 23,650	R 93,963
2012	1,560	4	16,826	7,845	2,887	2,901	16,085	772	4,308	34,798	R 12	2,165	711	64 64	R 80 R 90	12,606	R 68,763 R 71,367	R 22,894	R 91,658 R 94,229
2013 2014	1,588 1,569	-17 -22	18,447 19,054	7,996 8,410	3,166 3,067	2,969 3,042	16,332 16,473	654 495	4,332 4,197	35,448 35,684	R <sub>5</sub>	2,365 2,387	714 766	64	R 102	12,709 12,845	R 72,397	R 22,862 R 22,920	R 95,317
2014	1,411	-18	18,296	8,332	3,221	3,204	16,941	501	4,270	36,470	R <sub>5</sub>	2,305	791	64	R 113	12,826	R 72,207	R 22,249	R 94,456
2016	1,230	-19		8,115	3,184	3,350	17,238	680	4,388	36,954	R <sub>5</sub>	2,225	821	64	R 130	12,838	R 72,323	R 21,737	R 94.060
2017	1,217	-29	18,547	8,208	3,272	3,481	17,201	718	4,426	37,307	R <sub>6</sub>	2,171	847	64	R 149	12,704	R 72,923	R 20,947	R 93,870
2018	1,197	-26	20,284	8,634	3,720	3,533	17,209	650	4,345	38,091	R <sub>5</sub>	2,253	855	64	R 168	13,168	R 75,997	R 21,366	R 97,363
2019	1,133	-21	20,613	8,572	3,897	3,608	17,166	572	4,319	38,134	R <sub>4</sub>	2,232	835		R 187	13,004	R 76,131	R 20,359	R 96,490
2020	954	-13	R 19,698	7,931	3,956	2,234	14,883	426	4,023	33,453	R <sub>4</sub>	R 1,982	735	64	R 209	12,685	R 69,716	R 19,058	R 88,774
2021 2022	1,051 1,000	-49 -56		8,297 8,387	4,230	2,835	16,250 16,236	664 680	4,303 4,211	36,579	'' 4 4	R 1,993 2,050	789 808	64 64	R 236 277			R 19,597 19,657	R 93,340 94,761
2022	1,000	-56	20,919	0,367	3,957	3,228	10,236	080	4,∠11	36,700	4	2,050	808	64	2//	13,400	75,104	19,057	94,761

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Beginning in 2014, U.S. total includes other biofuels product supplied not allocated to the states.

h Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

<sup>&</sup>lt;sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

m Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

n Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

O Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system

<sup>- - =</sup> Not applicable. NA = Not available. Where shown, R = Revised data. (s) = Value less than +0.5 and greater than -0.5.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, United States

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Million short tons	Billion cubic feet		Million	barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Billion kilowatthours	End use e,h	energy losses <sup>i</sup>	Total <sup>e,h</sup>
1960	24	3.103	269	79	62	411				201			
1960 1965 1970 1975	15	3,103 3,903 4,837	269 294 322	100	62 59 53 28 19 28 11	453				291			
1970	9	4,837	322	143	53	518				466			
1975	3	4,924 4,752 4,433	310	133	28	472				588			
1980 1985 1990	1	4,752	226 188 168 155	81 82 92	19	326 297 271				717			
1000	1	4,433	160	02 02	∠0 11	297				794 924			
1995	+	4,391 4,850	155	103	13	271				1,043			
2000	(s)	4,996	155 147 122 125	145	17	317				1,192			
2005	(s)	4 827	147	145 134 116	15	295				1,359			
2006	(s)	4,368 4,722 4,892	122	116	15 12	295 250				1,359 1,352			
2007	(s)	4,722	125	126	8	258 278				1,392			
2008	0	4,892	130	144	4	278				1,381			
2009 2010	0	4,779 4,782 4,714	101	143	5	248 240				1,365 1,446			
2010	0	4,782	97	138	5	240				1,446			
2011 2012	0	4,714	90	128 103	3	222				1,423 1,375			
2012	0	4,150 4,897	85	121	<u> </u>	188 207				1,395			
2014	0	5 087	101 97 90 84 85 92 96 75 75 88	127	2	222				1,407			
2014 2015	ŏ	5,087 4,613 4,347	96	116	2	222 213				1,404			
2016	0	4,347	75	112	2	190				1.411			
2017 2018	0	4 413	75	112 132 147	1	189 221 230				1,379			
2018	0	4,998 5,019	88	132	1	221				1,469			
2019	0	5,019	82	147	2	230				1,440			
2020	0	4,674 R 4,717	71 82	129 126	2	202				1,465			
2021 2022	0	4,717	83	131	2	210 216				1,470 1,509			
2022	<u> </u>	4,504		101		210	Trillion Btu			1,000			
												D	D
1960	578	3,212	1,568	305 386 549	354 334 298 161	2,228	627	NA	NA	687	7,332	n 1,387	n 8,719
1965	348 207	4,019	1,/13	386 540	334	2,432	468	NA NA	NA NA	993	8,261	H 1,955	H 10,215
1965 1970 1975	62	4,019 4,953 5,024	1,713 1,878 1,807	512	161	2,432 2,726 2,479	401 425	NA NA	NA NA	1,591 2,007	9,877 9,998	R 4 102	R 14 100
1980	31	4 855	1,316	312	107	1 734	846	NA	NA	2,448	9 846	R 5 214	R 15 059
1980 1985	39	4,855 4,566	1,092	315	107 159	1,734 1,566	1 010	NA NA	NA	2,709	9,846 9,835	R 5.508	R 15.343
1990 1995	31	4,519 4,984 5,104 4,958	978 904	353 395	64	1,395 1,374 1,554 1,450 1,222 1,249	582 520 420 428	6	55 63 R 57 R 49	3,153	9,694	R 6,521	R 16,215
1995	17	4,984	904	395	74	1,374	520	7	_ 63	3,153 3,557	10,481	R 7,273	R 17,754
2000	11	5,104	904 853 709 721 750	556	64 74 95 84 66 44	1,554	420	9	H 57	4,069	11,191	H 8,523	H 19,714
2005	8	4,958	853	514	84	1,450	428	16	n 49	4,638	n 11,527	<sup>n</sup> 9,318	20,845
2006 2007	6	4,483 4,849	709	446 484 553	66	1,222	380 420	18 22 26 33 37	R 51 R 53 R 56	4,611 4,750	10,751 B 11,222	n 9,088	n 19,839
2007	0	5,018	721	404 552	94	1,325	470	22	N 53	4,750	R 11,333	R 0 262	R 20,773
2009	0	4 800	730 582	5/18	21 28 29	1,323	470 504	20	R 56	4,711	R 11,367	R 9,203	R 20,030
2010	0	4,899 4,887	561	548 530	29	1,157 1,120	504 541	37	R 50	4,657 4,933	R 11 558	R q 420	R 20,100
2011	ŏ	4 817	522	493	19	1 033	524	40	R 62	4 855	R 11 315	R 8 954	R 20 269
2011 2012	Ŏ	4,253	582 561 522 482 491	493 396 463	19 8	1,033 885	524 438	40 40 40	R 56 R 59 R 62 R 66 R 72	4,855 4,690	R 10,356	R 8,487	R 18,844
2013	0	5,037	491	463	8	962	572	40	R 72	4,759	R 11,426	R 8,541	R 19,967
2014 2015	0	4,817 4,253 5,037 5,258 4,794 4,525 4,593 5,202	532 550 434 431	490	14	1,035 1,006	579 513	40 40	H 70	4 801	H 11,774	H 8,568	R 20,342
2015	0	4,794	550	446	10	1,006	513	40	R 87 R 100 R 113	4,791	H 11,215	H 8,311	H 19,526
2016	0	4,525	434	430	14	877	445	40	P 100	4,815	D 10,787	B 8,165	18,952 R 10,470
2017 2018	0	4,593	431 506	431 507	8 8	870 1,021	430 525	40 40 40	R 123	4,704 5,013	" 10,734 B 11 007	'' 7,745 R o 144	118,479 B 20,054
2010 2010	0	5,202	470	507 563	11	1,021	525	40	R 123	5,013 4,914	·· 11,907 R 11 80Ω	0,144 R 7 600	∠0,051 R 10,507
2020	0	4 876	407	495	11	913	R 345	40	R 151	4,914 4 907	R 11 308	R 7 513	R 18 821
2019 2020 2021	0	4,876 R 4,915	407 473 479	563 495 484	9	913 967	546 R 345 R 344 422	40 40	R 136 R 151 R 169	4,997 5,017	9.694 10.481 11,191 R 11,527 R 10,751 R 11,333 R 11,587 R 11,588 R 11,315 R 10,356 R 11,426 R 11,774 R 11,215 R 10,787 R 10,787 R 11,907	R 1,387 R 1,955 R 3,262 R 4,102 R 5,214 R 5,508 R 6,521 R 7,273 R 8,523 R 9,088 R 9,088 R 9,441 R 9,263 R 8,893 R 8,893 R 8,487 R 8,541 R 8,541 R 8,568 R 8,311 R 8,165 R 7,745 R 8,165 R 8,165 R 7,745 R 8,165 R 8,16	R 8,719 R 10,215 R 13,140 R 14,100 R 15,059 R 15,343 R 16,215 R 17,754 R 19,714 R 20,845 R 19,839 R 20,773 R 20,850 R 20,180 R 20,979 R 20,979 R 20,979 R 20,979 R 18,844 R 19,526 R 18,526 R 18,526 R 18,479 R 20,051 R 19,537 R 19,537
2022	Ō	5,176	179	504	8	991	122	40	200	5,150	11,962	7,572	10.534

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

 <sup>&</sup>lt;sup>9</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 <sup>h</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

S

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, United States

					Petr	oleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>	Wood		Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical system	
Year	Million short tons	Billion cubic feet			Millior	n barrels			Billion kWh	and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Billion	kWh	End use <sup>f,j</sup>	energy losses k	Total <sup>f,j</sup>
1960	17	1,020	85	21	8	13	89	216	NA			NA	159			
1965 1970	11 7	1,444 2,399	92 101	27 37	9 11	15 16	103 114	245 279	NA NA			NA NA	231 352			
1975	7	2,508	101	34	9	17	78	238	NA NA			NA NA	468			
1980	5	2,611	89	23	7	20	90	229	NA			NA	559			
1985 1990	6 5	2,432 2,623	108 92	25 27	6	18 21	36 37	193 178	NA (a)			NA	689 838			
995	5 5	2,623 3,031	92 82	27 28	4	∠1 3	23	140	(s) (s)			(s) (s)	953			
2000	4	3,182	84	39	5	9	15	152	(s)			(s)	1,159			
2005	4	2,999	77	34	4	9	18	142	(s)			(s)	1,275			
2006 2007	3	2,832 3,013	69 66	32 32	3	9 12	12 12	125 123	(s) (s)			(s) (s)	1,300 1,336			
2008	4	3,153	66	41	1	9	11	128	(S)			(5)	1,336			==
2009	3	3,119	68	36	i	10	11	127	(s)			i	1,307			
2010	3	3,103	68	36	1	10	10	125	(s)			1	1,330			
2011 2012	3 2	3,155 2,895	68 62	37 35	1 (s)	9	9 5	123 110	(s) (s)			2 3	1,328 1,327			
2013	2	3,295	59	39	(s)	8	4	111	(s)			4	1,337			==
2014	2	3,466	62 62	42	(s)	11	1	116	(s)			6	1,352			
2015	2	3,202	62 56	39 39	(s)	74 74	1	176	(s)			6	1,361			
2016 2017	1	3,110 3,165	56	41	(s) (s)	74 71	1	171 169	(s)			8	1,367 1,353			
2018	i	3,514	56	46	(s)	72	(s)	175	(s)			10	1,382			
2019	1	3,515	57	47	(s)	73	(s)	178	(s)			12	1,361			
2020 2021	1	R 3,163 R 3,289	48 57	52 56	(s)	73 73 74	(s)	174 188	(s)			13 16	1,287 1,328			
2022	1	3,509	58	52	(s) (s)	87	1	198	(s)			18	1,320			
					, , ,			Trill	ion Btu				·			
1960	402	1,056	494	81	48	67	559 645	1,248	NA	12	NA	NA	543	3,261	R 1,096 R 1,552	R 4,357 R 5,509
1965 1970	263	1,483	534	103	54 61	77	645 714	1,413	NA	9	NA	NA	789	3,956	R 1,552 R 2,463	P 5,509 P 7,881
970	163 146	2,455 2,556	587 587	143 130	49	86 89	714 492	1,592 1,346	NA NA	8 8	NA NA	NA NA	1,201 1,598	5,418 5,654	H 2 266	R 8,920
1980	117	2,666	518	88	41	107	565	1,318	NA	21	NA	NA	1,906	5,994	H 4 059	H 10.053
1985	138	2,503	631	95	33	96	228	1,083	_NA	24	NA	ŅĄ	2,351	6,068	™ 4 781	H 10 8/10
1990 1995	124 116	2,698 3,117	536 478	102 109	12 22	111 18	230 141	991 769	R (s) R (s)	94 113	3 5	(s)	2,860 3,252	R 6,740 R 7,346	R 5,942 R 6,647	R 12,682 R 13,993
2000	86	3,261	490	151	30	44	92	807	H (c)	119	8	R (s) R (s) R 1	3,956	H 8 216	r 8 298	R 16,514
2005	96	3,083	447	132	30 22 15	46	116	762	B /_(	104	14	Ří	4,351	R 8 396	R g 706	R 17,102
2006	64	2,908	400	123	15	48	75	662	R (s) R (s)	101	14	R j R j	4,435	H 8.172	R 8,718 R 9.012	R 16,890
2007 2008	70 80	3,095 3,235	381 384	122 158	9	60 45	75 71	648 663	R (s)	101 107	14 15	"1 R2	4,560 4,559	R 8,477 R 8,648	R 8,915	R 17,489 R 17,563
2009	73	3,199	395	139	4	52 52	71	661	H (c)	107	17	R 2 R 3	4,459	R 8,506	R 8,484	P 16,990
2010	70	3,173	391	140	5	52	62	650	R (s)	108	19	R <sub>4</sub>	4.539	n 8 548	H 8 599	R 17.146
2011	62	3,226	391	143	3	44	54	635	(s)	112	20	R 7 R 11	4,531	R 8,580	R 8,296 R 8,143	R 16,876
2012 2013	44 41	2,968 3,391	355 343	136 152	1	39 40	31 24	562 560	(s) (s)	106 117	20 20	B 4 F	4,528 4,562	R 8,227 R 8,695	R g 141	R 16,370 R 16,836
2014	40	3,584	356	160	2	54	8	581	(s)	123	20	H 10	4,614	R 8.967	R g 150	R 17,126
2015	31	3,327	359	148	1	376	4	889	(s) R 1	126	20	R 21 R 23 R 28	4,643	R 9,045	R 7 996	n 17.041
2016	24	3,235 3,291	325 322	150 156	2	375	4	857 844	H 1 R 1	132	20	n 23	4,665	R 8,944 R 8,939	R 7,837 R 7,543	R 16,781
2017 2018	21 19	3,291	322 322	156 176	1	361 366	3	844 869	R <sub>1</sub>	131 131	20 20	H 25	4,616 4,715	R 9 432	H 7 580	R 16,483 R 17,021
2019	17	3,661 R 3,296	327 276	182	2	369	2	882	R į	123	20	H 40	4.643	H 9 375	H 7 212	R 16 587
2020	14	R 3,296	276	201	2	371	2	852	R 1 R 1	121	20	H 46	4,393	R 8 732	H 6 567	R 15,299
2021 2022	15 15	R 3,425 3,655	328 332	217 202	1	375 440	3	924 978	<sup>n</sup> 1	122 158	20 20	R 54 63	4,533 4,746	R 9,082 9,622	R 6,794 6,923	R 15,876 16,545
2022	10	3,005	332	202		440	3	9/8		108	20	63	4,746	9,022	0,923	10,545

a Includes supplemental gaseous fuels that are commingled with natural gas.

gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

R Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical

system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: • Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, assumed to be propane only.

<sup>&</sup>lt;sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, United States

		. Net				Petro	leum			l	Biom	nass						
	Coal	imports of coal coke	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gsasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Million s	short tons	Billion cubic feet			Million	barrels			Billion kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>	Bill kV	lion Vh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
960	177	(s)	5,771	174	122	73	252	370	991	4				NA	324			
965	201	(s) -1	7,112	197	172	65	252 252	499	1,185	3				NA	429			
970 975	187	-2	9,249	211	255	55	258 240	611	1,390	3				NA	571			_
975 980	147 127	-1	8,365 8,198	230 227	315 473	43 30	240	647 827	1,474 1,772	3	==			NA NA	688 815			_
85	116	-1	6,867	192	514	41	119	617	1,484	3	==			NA NA	837			
90	115		8,255	198	498	35		775	1,571	3				(s)	946			_
95	106	(s) 2	9,384	194	631	38	65 54	760	1,677	5				(s)	1,013			-
00	94	3	9,293	206	704	29	38 45	818	1,795	4				(s)	1,064			-
05 06	84 82	2	7,713 7,669	217 217	608 624	68 72	45 38	924 944	1,862 1.895	3				(s)	1,019 1.011			_
)7	79	1	7,881	217	636	72 59	38	902	1,845	3				(s) (s)	1,011			
08	76	2	7,890	233	553	48	31	804	1,669	2				(s)	1,010			_
09	61	-1	7,443	186	590	47	21	716	1,559	2				(s)	917			_
10	70	(s)	8,112	200	650	51	19	726	1,646	2				(s)	971			-
11	68	(s)	8,317	214	655	50	21	711	1,652	2				(s)	991			_
12	64	(s)	8,622	220	700	50	11	688	1,669	2					986			-
13 14	65	-1	8,909 9,158	219 237	751 720	52 42	8	694 667	1,724 1,672	3				]	985 998			_
14 15	64 58	-1 -1	9,158	203	720 773	42 51	5 5	678	1,710			==		¦	998 987			-
6	51	-1	9,036	200	776	52	8	685	R 1,722	1				2	977			
7	51	-i	9,526	209	807	52 52	8	R 696	1,771	i				2	984			
8	50	-1	10,112	217	919	53	7	683	1,879	1				3	1,001			-
9	47	-1	10,240	209	948	53	7	678	1,895	1				3	1,002			-
20	40	-1	R 10,064	185	998	53	5	<sub>B</sub> 632	1,874	1				4	959			-
21 22	43 42	-2 -2	R 10,225	206 208	1,071	52 55	7	R 631 600	R 1,967 1,908	1				4	1,001			-
22	42	-2	10,420	208	1,039	55	- /	600		· ·				4	1,020			-
										rillion Btu								
60	4,548	-6	5,973	1,016	461	381	1,584	2,278	5,720	R 12	680	NA	NA	NA	1,107	R 18,034	R 2,233	R 20,20
65	5,134	-18	7,350	1,150	650	342	1,582	3,026	6,750	R 11 R 11	855	NA	NA	NA	1,463	R 21,545	R 2,878 R 3,992	R 24,4
70 75	4,664 3,658	-58 14	9,498 8,571	1,226 1,339	930 1,126	288 223	1,624 1,509	3,686 3,895	7,755 8,092	R 11	1,019 1,063	NA NA	NA NA	NA NA	1,948 2,346	R 24,836 R 22,754	R 4,794	R 28,8
30	3,155	-35	8,409	1,324	1,718	158	1,349	4,915	9,464	R 11	1,600	NA	NA	NA NA	2,781	R 23,754 R 25,338	R 5,921	R 28,5 R 31,2
15	2,777	-13	7,096	1,119	1,813	218	748	3,759	7,656	R 11	1,875	42	NA	NA	2,855	H 22.260	R 5.803	R 28.0
0	2,754	5	8,520	1,150	1,781	185	411	4,672	8,200	<u>P</u> 10	1,634	49	2	(s)	3,226	R 24.359	H 6 603	R 28,0 R 30,9
95	2,500	61	9,678	1,130	2,269	200	337	4,592	8,527	R 18	1,847	86	3	(s)	3,455	H 26.136	R 7,036	m 33 1
00	2,259	65	9,550	1,199	2,498	150 354 374	241	4,914	9,001	R 14 R 11	1,781	99	4	(s)	3,631	R 26,374	R 7,568 R 7,092	n 33 g
)5 )6	1,954	44 61	7,930	1,262	2,138	354	281	5,539	9,575	R 10	1,604	227 280	4	(s) R (s)	3,477	R 24,804 R 24,884	R 6,913	R 31,8 R 31,7
סי 7	1,914 1,864	25	7,881 8,098	1,258 1,256	2,171 2,207	302	239 193	5,661 5,415	9,703 9,373	IU	1,606 1,562	369	4	R (s)	3,451 3,507	R 24,782	R 7,118	R 31,7
8	1,792	41	8,103	1,348	1,904	245	194	4,823	8,514	R 5 R 6	1,486	519	5	R (s)	3,444	R 23,884	H 6 924	H 30 8
9	1,394	-24	7,629	1,073	1,992	238	130	4,300	7,733	R 6	1,336	603	4		3,130	R 21.784	R 6.090	R 27.8
0	1,625	-6	8,302	1,153	2,207	238 260	120	4,360	8,099	R 6 R 6	1,577	727	4	B i	3,314	R 21,784 R 23,619	H 6 414	R 27,8 R 30,0
1	1,567	11	8,502	1,235	2,172	254	135	4,275	8,071	R 6	1,602	756	4	Bi	3,382	R 23,874 R 24,103	R 6.354	H 30.2
12	1,516	4	8,823	1,270	2,351	252	70	4,138	8,081	Ra	1,621	711	4	R 2	3,363	H 24,103	H 6 220	m 30 3
3	1,547	-17	9,131 9,450	1,264 1,364	2,545 2,409	263 210	48 41	4,157	8,276 8,033	R 12 R 4	1,676 1,685	714 766	4	R 3 R 4	3,362 3,404	R 24,683	R 6,135 R 6,148	R 30,8 R 30,9
14 15	1,529 1,380	-22 -18	9,450 9,427	1,364	2,409	210 258	41 34	4,010 4,074	8,033 8,151	R 5	1,685	766 791	4	R 5	3,404 3,366	R 24,832 R 24,749	R 5,899	R 30,6
16	1,206	-19	9,610	1,154	2,592	262	52	R 4,198	8,258	R <sub>4</sub>	1,648	821	4	R <sub>7</sub>	3,333	R 24 846	R 5,693	R 30,5
7	1,197	-29	9.863	1,202	2,673	264	52 50	R 4.254	R 8 444	R <sub>5</sub>	1,610	847	4	R 8	3,358	R 25 274	R 5 618	R 30 8
18	1,178	-26	10,465	1,251	3,024	269	43	R 4,176	R 8,764	R <sub>4</sub>	1,597	855	4	Rg	3,414	H 26 233	R 5 592	H 31 8
19	1,117	-21	10 607	1,203	3,139	267	41	4,151	8,801	R <sub>4</sub>	1,563	835 735	4	B 11	3,420	H 26 312	R 5 409	n 31 7
20	939	-13	R 10,417	1,065	3,252	269	32	3,874	8,493	Rg	1,516	735	4	R 12	3,272	n 25,349	R 4,946	n 30.2
21	1,037	-49	<sup>rt</sup> 10,577	1,185	3,519	264	46 47	R 3,884	R 8,898	Rg	1,527	789	4	R 14	3,414	<sup>rt</sup> 26,184	R 5,192	<sup>n</sup> 31,3
22	986	-56	10,766	1,198	3,240	276	4/	3,713	8,474	3	1,469	808	4	15	3,482	25,919	5,130	31,0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>&</sup>lt;sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

<sup>&</sup>lt;sup>†</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

j Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation

of changes in methodology.

kWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5.

Notes: · Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. · The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, United States

			Petroleum											
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>ℂ</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total <sup>f</sup>	Electricity <sup>g</sup>		Electrical	
Year	Million short tons	Billion cubic feet				Mill	on barrels				Billion kilowatthours	End use <sup>h,i</sup>	system energy losses <sup>j</sup>	Total <sup>f,h,i</sup>
1960	3	347	59	153	5	136	25	1,367	134	1,880	3			
1965		501 722 583 635	59 44 20	188 269 364	. 8	220	25 24 24 26	1,596 2,040 2,377	123 121	2 203	3			
1970 1975	(s)	722 583	20 14	269 364	12 11	353 362	24 26	2,040 2,377	121 113	2,839 3,267	3			
1980	(s) 0	635	13	480	5	389	28	2.35/	222	3 494	3			
1985 1990	0	504 660	10	544 629	8	445 556	26 29	2,434 2,584	125 162	3,591 3,974	4			
1990	0	705	8	720	5 5	553	29	2,584 2,801	145	3,974 4,259	5 5			
2000 2005	Ö	655 607	7	887	3	631 613	30	3,063 3,266	141	4,762 5,094	5			
2005 2006	0	607 608	7	1,043 1,101	7	613 596	30 25 24	3,266	133 144	5,094 5,175	8			
2007	0	646	6	1,108	6	592	24 25	3,296 3,319	158	5.215	8			
2008	Ō	674 697	6	1,002 959	10 7	563 509	25 23 21	3,233 3,227	147 126	4,985 4,853	8			
2009 2010	0	697 703	5	959 1,009	7	509 523	21 26	3,227 3,221	126 142	4,853 4,926	8			
2010 2011 2012	0	703 718 761	5	1,040 995	1	520 512	24	3,136 3,120	123 107	4,850 4,762	8			
2012	Ō	761	5	995	1	512	22	3,120	107	4,762	7			
2013 2014	0	863 735	4	1,023 1,069	2	524 537	24 25	3,168 3,204	92 71	4,837 4,911	8			
2015	ő	863 735 718	4	1,086	3	565	27	3,225	74	4,983	8			
2016	0	729	4	1,077	3	591	24 22 24 25 27 25 23 <sup>R</sup> 22	3,284	99	5,084	7			
2017	0	770 927	4	1,086	3	614 623	23 R 22	3,280 3,279	106 96	5,117 5,167	8 8		 	
2018 2019	ŏ	927 1,071	5	1,138 1,141	3	623 636		3,279 3,272	84	5,167 5,163	8			
2020	0	H 1 069	4	1,074	2	394	19	2.819	96 84 62 98	4.375	7			
2021 2022	0	R 1,186 1,277	4	1,095 1,107	3	500 569	20 21	3,091 3,074	100	4,859 4,940	6 7			
-				·			Trill	ion Btu						
1960	76	359	298	892	19	739	152	7,183	844	10,125	10	10,571	R 21 R 20	R 10,592
1965	16	518	222	1,093	32	1.215	149	8.386	770	11 866	10	12.410	R 20	R 12,430
1970 1975	1	740 595	100 71	1,569 2,121	32 44 43	1,973 2,029	147 155 172	10,716 12,485	761 711	15,311 17,615	11 10	16,069 18,221	R 22 R 21 R 24 R 29 R 33 R 33 R 37	R 12,430 R 16,090 R 18,241
1980	Ö	650	64 50	2.795	18	2.179	172	12.383	1.398	19.009	11	19.670	R 24	n 19.694
1985 1990	0	521 683	50	3,170	30	2,497	156 176	12,784 13,575	786 1,016	19,472	14	20,057	H 29	R 20,086 R 22,419
1995	0	728	45 40	3,661 4,191	30 23 18	3,129 3,132	168	14,576	911	21,626 23,036	16 17	22,385 23,781	R 33	R 23.814
2000	0	674	36	5,159	12	3,580	179	15 933	888	25 787	18	26.479	R 37	n 26.517
2005 2006	0	625 627	35 33	6,068 6,390	28 28	3,475 3,379	151 147	16,958 17,088	837 906	27,553 27,972	26 25	28,215 28,657	R 51 R 49	R 28,267 R 28,705
2007	0	665	36 35 33 32 28 27 27	6,411	22	3.358	152	17 066	994	28,034	28	28 772	R 49 R 53 R 49	H 28 825
2008	0	694 717	28	5,792	22 40 28 5	3.193	141	16,510 16,425 16,320	926	28,034 26,630 25,818 26,187	26	27,389 26,561	R 49	H 27,438
2009 2010	0	/1/ 721	27 27	5,538 5,826	28 5	2,883 2,963	127 155	16,425 16,320	791 892	25,818 26,187	27 26	26,561 26,935	R 48 R 48	R 26,610 R 26,983
2011	ő	736	27	6.000	5 5	2,950	148	15.877	776	25,783	26	26,545	R 46	R 26,590 R 26,120
2012	0	736 782 888	25	5,738	5	2,901	135 143	15,795	671 581	25,783 25,270 25,650	26 25 26	26,077	R 43	R 26,120
2013 2014	0	888 762	27 25 22 22 21 20 21	5,898 6,159	6 8	2,969 3,042	149	16,030 16,209	447	25,650 26,035	26	26,564 26,823	R 43 R 44 R 45	R 26,608 R 26,868
2015	ŏ	747	21	6.255	10	3,204	163 R 153 R 141	16,308 16,601 16,576	463 623 665	26,035 26,424 R 26,962 27,150	26	27,198 R 27,746 R 27,976	H 43	R 27.241
2016 2017	0	758 801	20	6,202 6,253	12 12	3,350 3,481	H 153	16,601	623	H 26,962	26 26 26 26	H 27,746	R 42 R 40	R 27,788 R 28,017
2017	0	962	21 22	6,253 6,555	13	3,481	R 136	16,573	604	R 27,130	∠6 26	R 28.425	R 41	H 28.466
2019	Õ	962 1,113	22 23 20	6,572	12	3,608	R 136 R 132	16,573 16,531 14,243	604 529 391	R 27,436 R 27,408	26	R 28,425 R 28,547 R 24,327	R 39 R 32	R 28.586
2020 2021	0	R 1,110 R 1,229	20	6,183 6,310	9 10	2,234 2,835	116 R 123	14,243 15,611	391 615	R 23,195 R 25,789	26 26 22 22	<sup>R</sup> 24,327 R 27,040	<sup>H</sup> 32 <sup>R</sup> 31	R 24,360 R 27,071
2022	0	1,322	22 22	6,379	11	3,228	R 123 130	15,519	630	26,256	23	27,601	31	27,632
		f natural gas to one		. 1000 1 .				i = 4004			lended into motor a	P 11 11 11		

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

oistillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other Petroleum."

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

U.S. total includes other biofuels product supplied not allocated to the states.

<sup>&</sup>lt;sup>9</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Sales to public railroads and railway systems only. Excludes electric vehicles.

h There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in

i For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

Jincurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Administration. State Energy Data 5 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, United States

				Petro	oleum		Nuclear		Biomass				Electricity	_
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	net imports h	
Year	Million short tons	Billion cubic feet		Million	barrels		Billion kil	owatthours	Wood and waste <sup>e,f</sup>		Billion ki	lowatthours		Total <sup>f,i</sup>
1960	177	1,725	4	0	84	88	1	146		(s)	NA	NA	5	
1960 1965	245	2.321	5	Ö	110	88 115	4	194		(s)	NA	NA	(s) 2	
1970 1975	320 406	3,932 3,158	24	3 (s)	311 467	339 506	22 173	248 300		1 3	NA NA	NA NA	2 6	
1980 1985	569 694	3,682	39 29 15	1	391 159	421	251 384	276		5	NA	NA	21	
1985 1990	694 783	3,044 3,245	15 17	1 5	159 185	175 207	384 577	281 290		9 15	(s)	(s)	41 2	
1995	850	4,237	19	13	90	122	673	305		13	(s)	3	39	
2000	986	5.206	30	16	139	185	754	271		14	(s)	6	34	
2005 2006	1,037 1,027	5,869 6,222	20 13	40 36	139 57	199 105	782 787	267 286		15 15	1	18 27	25 18	
2007	1.045	6.841	15	28	63	107	806	246		15	i	34	31	
2008 2009	1,040 934	6,668 6,873	13 12	26	38	76 64	806 799	253 272		15 15	1	55 74	33 34	
2010	975	7,387 7,574	14	23 24	29 25	62	807	258		15	1	95	26	
2011	932	7,574	11	24	15	50	790	318		15	2	120	37	
2012 2013	824 858	9,111 8,191	9 10	15 21	12 12	36 43	769 789	274 265		16 16	4 9	141 168	47 58	
2014	852	8,146	14	21	15	50	797	258		16	17	181	53 66	
2015 2016	738 679	9,613 9,985	12 10	20 21	15 11	47 41	797 806	248 266		16 16	24 35	191 227	66 67	
2016	665	9,965	9	17	10	37	805	299		16	53	254	56	
2018	637	10,599	14	18	12	44	807	291		16	53 63	272	44	
2019 2020	539 436	11,299	9	13 15 15	9	32 31	809 790	287 284		15 16	71 89	296 338	39 47	
2021	501	11,632 R 11,229	10	15	9	35	R 780	250		16	115	378	39	
2022	473	12,092	14	15	12	41	772	254		16	143	434	41	
							Trillion Btu							
1960	4,227 5,821	1,785 2,408	22 29	0	530 693	553 722	6 43	R 498 R 661	2	(s) R 1	NA NA	NA NA	15	R 7,085 R 0,650
1965 1970	7,228	4,048	141	19	693 1,958	2,117	239	R 845	4	R <sub>2</sub>	NA	NA	(s) 7	R 9,659 R 14,490
1975 1980	8,789 12,158	3,232	226	2 5	2,937 2,459	3,166 2,634	1,900 2,739	R 1,024 R 942	2	R 11 R 17	NA NA	NA NA	21 71	R 18,144 R 22,363
1985	14,586	3,804 3,157	169 85	5 7	2,459 998	1.090	4,076	R 959	14	Rag	(s) R 1	(e)	140	R 24 050
1990	16.259	3,333 4,327	97	30	1,163 566	1,289 755	6 104	Raga	317	R 53 R 46	Ří	R 10 R 11	8	R 28,355 R 31,270
1995 2000	17,465 20,220	4,32 <i>7</i> 5,318	108 175	81 99	566 871	/55 1,144	7,075 7,862	R 1,042 R 926	422 453	R 48	R2 R2 R2 R2 R2 R3	R 19	134 115	R 31,270 R 36,100
2005	20,735	6,036	114 73	231	876	1,222	8,161	R 911	401	R 50	R 2	Rei	85 63	H 37 658
2006 2007	20,460	6,394	73	203	361	637 648	8,215	R 977 R 839	408 419	R 50 R 50	H <sub>2</sub>	R 91	63 107	R 37,290 R 38,468
2007	20,805 20,511	7,028 6,849	89 73	163 146	397 240	459	8,459 8,426	R 864	431	R 51	R3	R 118 R 189	112	H 27 801
2009	18,224	7.044	70	132	181	382	8.355	R 926	438	R 51	R3 R4	H 252	116	R 35.788
2010 2011	19,133 18,035	7,550 7,734	80 64	137 138	154 93	370 295	8,434 8,269	R 882	459 437	R 52 R 52 R 53	Ré	R 323 R 410	89 127	R 37,293 R 36,444
2012	15,821	9,313	80 64 52 55 82 70	85	93 77	214	8,062	R 1,083 R 934	453	R 53	R 14	R 480	161	H 35.500
2013 2014	16,450 16,427	8,398 8,385	55	123 118	77 95	255 295	8,244 8,338	R 904 R 880	470 530	R 54 R 54	R 30 R 59	R 572 R 619	197 182	R 35,571 R 35,765
2015	14,138	9,945	62 70	112	94	276	8,337	R 845	525	R 54	R 83	R 650 R 774	227	n 35 075
2016	12,997	10,325	55 55	118	71	244	8,427	R 909 R 1,019	505	R 54 R 54 R 54	R 121 R 180	R 774 R 867	227	R 34,575 R 33,651
2017 2018	12,622 12,053	9,578 10,952	55 80	97 101	66 78	218 260	8,419 8,438	H 1,019 R 993	510 496	H 54	H 216	R 929	192 152	R 34,534
2019	10.181	11.687	54	76	59	188	8,452	R 978	448	H 53	R 243	H 1 009	133	H 33 363
2020 2021	8,229 R 9,498	12,023 R 11,612	44 60	87 88	53 57	184 205	8,251 R 8,131	R 969 R 854	428 426	R 54 R 55	R 302 R 391	R 1,152 R 1,289	161 134	R 31,743 R 32,583
2022	8,886	12,492	83	85	76	244	8,046	865	374	55	487	1,481	141	33,057
	,	•					, .							,

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning

 <sup>9</sup> Solar thermal and photovoltaic energy.
 h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

<sup>&</sup>lt;sup>i</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5.

Notes: 'Totals may not equal sum of components due to independent rounding.' The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. 'Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. 'The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

**State Consumption Tables** 

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Alabama

						Petroleum								
										- 	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>C</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthour	s	Thousan	d barrels
1960	15,578	184	5,393	3,211	1,126	24,578	4,292	4,898	43,498	0	6,239	0	NA	NA
1965 1970	21,473 27,653	229 298	5,251 8,512	4,207 7,583	1,156 1,799	28,919 37,003	2,553 3,290	6,667	48,752 66,093	0	7,103 7,632	0	NA NA	NA NA
1971	26.116	286	8.858	8.025	1.786	39.066	3,290 2.655	7,907 8,316	68,706	0	9,936	0	NA NA	NA
1972	27,692	278	12,093	8,985	1,704	41.384	2,655 3,138	8,766	68,706 76,070	0	9,936 10,233	0	NA	NA
1973 1974	28,646 27,339	272 275	14,418 15,067	8,488 7 121	1,681 1,706	43,694 44,115	6,107 10,325	9,283 9,020	83,670 87,355	314 6,289	11,803 10,369	0	NA NA	NA NA
1974 1975	26,609	275 264	15,067 14,697	7,121 6,540	1,706 1,707	44,115 45,174	10,325 12,953	8,039	83,670 87,355 89,108	2.722	10,369 12,213	ŏ	NA	NA
1976 1977	26,246	226 241	18,274	7,182 7,793	1,654 1,773	47,463 49,179	14,244 16,299	8,332	97,149 104,337 104,944 89,925	4,214 19,522	9,458 10,354 7,893 11,867	0	NA NA	NA NA
1977	26,261 23,748	237	19,783 20,607	7,793 6.860	1,773	50.715	16,299	9,510 10.036	104,337	22.830	7.893	0	NA NA	NA
1978 1979	23,748 27,424	237 283	15,056	6,860 5,756	1,785 1,702	50,715 47,914	14,942 10,246	10,036 9,251	89,925	22,830 22,090	11,867	Ö	NA	NA
1980 1981	27,042 25,779	269 271	15,190	4,949 4,573	2,048 1,754	44,296 43,028	7,296 4,640	8,728 9,290	82 507	23,497 23,643	9,408 6,038 10,731	0	NA 0	NA NA
1982	20.956	241	17,944 15,422	4.424	1.581	42.946	6.120	9,920	81,229 80,414	27.701	10,731	0	27	NA
1983 1984	21,979	222 232	15,386 14,290	4,450 3,382	1,643 3,695	43,379 44,188	3,468 2,708	8.118	76 444	25,145 24,211	11,165 10,798	0	69 78	NA
1984	23,936 27,145	232	14,290 14,520	3,382	3,695 3,516	44,188 43,476	2,708 2,249	7,960 7,887	76,223 75,297	24,211 14,313	10,798 6,886	0	/8 369	NA NA
1985 1986	26,831	219 203	14,655	3,648 4,024	3,516 3,745	43,476 46,448	2,464	7,015	75,297 78,351	14,313 11,561	6,886 5,251 7,472 5,383 13,153 10,367 10,758	ŏ	369 567	NA
1987	26,683	208	16.026	4 653	3.872	48 533	2,436	9,171	8// 601	11.248	7,472	0	1.136	NA
1988 1989	26,441 27,701	236 246	17,799 21,316	4,438 4,768	1,872 2,046	48,748 49,488	3,443 3,638	8,809 8,169	85,108 89,424 88,333 88,795	12,981 11,524	5,383 13,153	0	1,012 566	NA NA
1990 1991	27,713 29,428	245 255	21,579 21,142	4,160 3,807	1,899 2,292	49,199 49,527	3,915 3,533	7,581	88,333	12,052	10,367	ŏ	467	NA
1991	29,428	255	21,142	3,807	2,292 2,108	49,527	3,533	8.493	88,795	15,875	10,758	0	465	NA NA
1992 1993	31,588 33,135	280 294	21,413 20,991	3,968 5,033	2,106 1,973	50,605 51,956	3,864 4,006	7,980 8,050	89,937 92,009	19,397 17,823	9.034	0	745 394 424	NA NA
1994	31.567	291 323 327	23.529	5.132	3.472	53.226	3,381 3,110	8.296	97,036 99,312	20.480	10,260 9,034 11,429 9,502	Ö	424	NA
1995 1996	34,389 37,140	323	23,653 23,628	5,115	3,843 3,508	55,472 54,999	3,110	8,119 9,027	99,312 99,161	20,752 29,708	9,502 11,082	0	581 101	NA NA
1997 1998	36,692	324 329	23,057	4,845 4,269 3,252	2 184	55,694	3,154 2,542	8,911	96,656	29,573	11,521 10,565 7,760 5,818	0	99	NA
1998	36.415	329	23,057 22,409	3,252	3 525	55,694 57,416	1.440	7.614	96,656 95,655	29,573 28,663	10,565	0	99 82	NA
1999 2000	38,216 40,103	337 354	24,061 24,607	7,025 7,381	1,963 2,348 2,343	57,669 57,162	1,461 4,229	7,850 8,090	100,029 103,818	30,892 31,369	7,760 5,818	0	11 0	NA NA
2001	37.694	333	23.337	7,163 5,273	2,343	57,718 61,607	1.517	8.073	100,151	30.357	8,356	ŏ	373	5 7
2002 2003	37,072	379 350	22,718	5,273 4,195	2,257	61,607 59,207	3,989 1,284	8,452	100,151 104,297 103,839	31,857 31,677	8,356 8,825 12,665	0	254 367	7 6
2003	39,306 38,908	350 382	27,959 31,319	4,195 4,458	2,569 2,554	62,118	1,284	8,626 10.287	112,435	31,677	10,626	0	726	12
2004 2005	40.568	382 353	29.891	4,458 3,007	2,554 2,466	62.866	1.778	10,287 11,044	112,435 111,052	31,636 31,694	10,626 10,145	Ö	48	12 41 117
2006 2007	40,551 40,423	391 419	30,040 29,284	3,371 3,925 3,627 3,217	2,313 2,321 2,169	63,465 64,300	2,258 2,161	10,772 9,614	112,219 111,606	31,911 34,325	7,252 4,136	0	44 137	117
2008	38.987	404	26.373	3,923	2,321	62.517	2.162	9,345	106.195	38.993	6.136	0	1.078	158 136 144
2009	29,899	454	24,208	3,217	1,744	62,614	1,126	9,345 6,421	106,195 99,331 102,750	39.716	6,136 12,535	0	1,078 2,638 6,714	144
2010	33,670 30,670	535 500	25,625	3,455 2,779	2,131	63,265	1,640	6,634 6,739	102,750	37,941 39,356 40,841	8,704 8,884	0	6,714 6 343	116
2011 2012	25.695	599 667	26,940 27,158	2 262	2,395 2,289	61,385 60,653	2,124 1,823	6 586	100,771	40,841	8,884 7,435	0	6,343 6,133	397 490
2013 2014	27,235	615	25,176	2,372	2.016	61,223	1 105	5,798	97,689	40,816	12,899	0	6,306	829 626
2014 2015	27,235 27,135 23,580	635 681	25,176 24,885 26,666	2,372 2,370 2,338	2,051 1,958	61,223 61,205 63,872	1,229 1,088	5,798 5,623 5,777 R 5,865 R 6,035 R 5,623 R 5,505	102,/50 102,362 100,771 97,689 97,682 101,700 R 106,982 R 102,929 R 105,149 R 104,611	40,816 41,244 41,951	12,899 9,467 9,862	0	6,306 6,358 6,655	626 794
2016	19.806	695 661	29.372	2,238 2,237	1,841 2,034	65,767 64,822	1,899 1,758	R 5,865	R 106,982	39,902 42,652	6,985	Ö	6,815	1,311 1,086
2017	18,494	661	28,407	2,237	2,034	64,822	1,758 1,148	H 6,035	H 105,293	42,652	6,985 9,237 11,143	0	6,747	1,086
2018 2019	18,408 16,026	750 728	27,157 27,077	2,478 2,661	2,018 2,134	64,505 66,636	1,148 1,137	R 5,505	R 102,929	39,463 43,657	11.405	0	6,308 6,336 6,201	1,079 R 971
2020	13.220	693	26 531	2 632	1.548	67 450	824		R 104,611	43.551	13.349	ő	6,201	998
2021 2022	16,033 15,856	693 R 718 764	R 27,997 27,297	2,657 2,605	1,696 1,699	76,272 76,229	1,371 1,405	R 5,977 6,102	R 115,971 115,338	46,036 42,314	11,521 10,188	0	7,315 7,940	998 R 727 629
2022	15,056	/04	21,291	2,005	1,099	70,229	1,405	6,102	110,338	42,314	10,168	0	7,940	629

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Alabama (trillion Btu)

					Fossil	fuels						Fossil fuels (as commingled)	
						Petroleum						(as commingiea)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	395.4	190.7	31.4	12.3	6.1	129.1	27.0	30.2	236.0	822.1	190.7	31.4	129.1
1960 1965 1970 1971	395.4 533.1	190.7 236.9	31.4 30.6	12.3 16.1	6.1 6.2	129.1 151.9 194.4 205.2	16.0	30.2 41.0	261.9	822.1 1,032.0	190.7 236.9	31.4 30.6 49.6 51.6	129.1 151.9
1970	675.6 626.1	307.8	49.6 51.6	28.8 30.5	9.9	194.4	20.7 16.7	48.7 51.2	352.0 365.0	1,335.4 1,285.9	307.8 294.8	49.6	194.4 205.2
1971	626.1	294.8	51.6	30.5	9.8	205.2	16.7	51.2	365.0	1,285.9	294.8	51.6	205.2
1972	669.7 688.7 653.4	287.1	70.4 84.0 87.8	34.0 32.1 26.8	9.4	217.4 229.5 231.7	19.7	54.2 57.3 55.6	405.1 450.5 476.2	1,362.0 1,419.1	287.1 280.0 282.5	70.4 84.0 87.8	217.4 229.5 231.7
1972 1973 1974	653.4	280.0 282.5	04.0 87.8	32.1 26.8	9.3 9.4	229.5	38.4 64.9	57.3 55.6	430.3 476.2	1,419.1	282.5	04.U 87.8	229.5 231.7
1975	640.1	271.7	85.6	24.6	9.4	237.3	81.4	49.5	487.8	1 399 6	271 7	85.6	237.3
1975 1976	640.1 632.1 629.4	271.7 232.8	106.4	24.6 27.0 29.1	9.1	249.3	89.6	49.5 51.4	487.8 532.9 573.5	1,399.6 1,397.7	232.8	85.6 106.4	249.3
1977	629.4	248 7	115.2	29.1	9.8	258.3	102 5	58.5	573.5	1 451 6	248.7	1152	258.3
1978 1979	577.6	245.0	85.6 106.4 115.2 120.0 87.7	25.5 21.2	9.9	266.4	93.9 64.4	61.9	577.7 491.3	1,400.3	271.7 232.8 248.7 245.0 291.5	120.0 87.7	237.3 249.3 258.3 266.4 251.7
1979	670.2	291.5	87.7	21.2	9.5	251.7	64.4	56.8	491.3	1,453.0	291.5	87.7	251.7
1980 1981	661.0 630.0	278.3 281.0	88.5 104.5 89.8 89.6	18.4 17.1	11.3 9.7	237.3 249.3 258.3 266.4 251.7 232.7 226.0	45.9 29.2	61.9 56.8 53.6 58.0	450.4 444.5	1,389.7 1,355.5	278.4 281.0	88.5 104.5	232.7 226.0
1982	511.1	201.0 253.4	104.5	17.1	9.7 8.7	220.0	29.2	50.0 61.3	444.5	1,355.5	253.5	104.5 80.8	220.0 225.6
1982 1983	532.6	253.4 230.0	89.6	16.4 16.6	9.1	225.6 227.9	38.5 21.8	61.3 50.5 49.8 49.7 44.4 57.9 55.3 51.6	415.6	1,204.8 1,178.2	253.5 230.0	89.8 89.6	225.6 227.9
1984	584.6	239.6 227.8 210.2 214.6 243.2	83.2	12 7	20.7	232.1	17.0	49.8	415.6	1,239.8 1,300.7 1,296.1	239.7 227.8 210.2 214.6 243.2	83.2 84.6 85.4 93.4 103.7	232.1
1985	662.9 660.5 660.7 652.7	227.8	83.2 84.6 85.4 93.4 103.7 124.2 125.7 123.2 124.7 122.3	13.6 15.1	19.7 21.0	232.1 228.4 244.0 254.9 256.1 260.0 258.4 260.2 265.8 269.7	14.1 15.5	49.7	410.0	1,300.7	227.8	84.6	232.1 228.4 244.0 254.9 256.1 260.0 258.4 260.2 265.8 271.1
1986	660.5	210.2	85.4	15.1	21.0	244.0	15.5	44.4	410.0 425.3 460.7 463.7 487.9 482.9 486.5 492.0 498.1	1,296.1	210.2	85.4	244.0
1985 1986 1987 1988	660.7	214.6	93.4	17.5	21.7	254.9	15.3 21.6	57.9	460.7	1 336 0	214.6	93.4	254.9
1988	652.7	243.2	103.7	16.7	10.4	256.1	21.6	55.3	463.7	1,359.6 1,423.6 1,417.5 1,471.9	243.2	103.7	256.1
1989	682.1 682.5	253.6 252.1	124.2	18.0	11.4 10.6	260.0	22.9 24.6	51.b 49.0	487.9 492.0	1,423.6	253.6	124.2 125.7	260.0 250.4
1990 1991	723.9	261.5	123.7	15.6 14.2 14.7 18.7	12.6	260.4	24.0	48.0 54.2 50.7 51.3	402.9	1,417.5	253.6 252.5 261.8	123.2	250.4
1992	775.7	287.9	124.7	14.7	11 7	265.8	22.2 24.3 25.2	50.7	492.0	1.555.6	288.1	124.7	265.8
1992 1993	775.7 812.9	287.9 302.2	122.3	18.7	11.0	269.7	25.2	51.3	498.1	1,555.6 1,613.3	288.1 302.7	124.7 122.3	271.1
1994	773.8 828.3 890.7	299.3 332.4 337.8	136.9	19.1 19.0	19.6 21.8	276.0 286.7 286.2	21.3 19.6	52.8 51.7	525.7	1,598.8 1,697.0	299.3 332.4 337.8	136.9	277.5
1994 1995 1996	828.3	332.4	137.7	19.0	21.8	286.7	19.6	51.7	536.3	1,697.0	332.4	137.7	288.7
1996	890.7	337.8	136.9 137.7 137.5 134.2 130.4 140.0 143.2 135.8	18.1	19.9	286.2	19.8	57.6	525.7 536.3 539.1 524.9 518.6	1,767.6	337.8	136.9 137.7 137.5 134.2 130.4 140.0 143.2 135.8 132.2	277.5 288.7 286.6 289.9 298.7 300.0 297.3 300.2
1997 1998	867.3 856.5	337.4 342.0	134.2	16.1 12.4	12.4 20.0	289.5	16.0	56.7 48.3 49.7 51.6	524.9	1,729.6 1,717.1	337.5	134.2	289.9
1999	000.0 866.5	342.U 349.1	130.4	12.4 26.4	11.1	290.5 300.0	9.1 9.2	40.3 49.7	516.6 536.4	1,717.1 1 752 0	342.0	130.4 140.0	290.7 300.0
2000	866.5 904.2 842.3	349.1 368.5 344.0	140.0	26.4 27.7	13.3	297.3	26.6	51.6	536.4 559.7	1,752.0 1,832.4	368.5	140.0	297.3
2001	842.3	344.0	135.8	26.5	13.3	298.9	9.5	50.8	534.8	1 721 1	344.0	135.8	300.2
2002	846.0	390.0	132.2 162.7	26.5 19.7 15.7	12.8	319.4	9.5 25.1 8.1	50.8 53.2	534.8 562.4 561.7	1,798.3	337.5 342.0 349.1 368.5 344.0 390.0	132.2	320.3 307.7
2003	873 7	360.5	162.7	15.7	14.6	306.4	8.1	54.3	561.7	1 795 9	360.5	162 7	307.7
2004 2005	853.9 890.1	391.9 363.4	182.2 173.9 174.3 169.4 152.4	16.7 11.2	14.5 14.0	289.5 298.5 300.0 297.3 298.9 319.4 306.4 320.2 326.2	10.7 11.2	65.6 70.3	610.0 606.8	1,855.8 1,860.3	360.5 391.9 363.4	182.2 173.9	322.8 326.4
2005	890.1	363.4	1/3.9	11.2	14.0	326.2	11.2	70.3	606.8	1,860.3	363.4	1/3.9	326.4
2006 2007 2008	886.7 888.4 842.8	402.0 430.6	174.3	12.5 14.4 13.6	13.1 13.2	328.9 330.2 315.5	14.2	68.2 60.5 58.9	611.3 601.2 566.3	1,900.0 1,920.3 1,823.4	402.0 430.6 414.3	174.3 169.4 152.4	329.1 330.6 319.2
2007	842.8	430.6 414.3	152.4	13.6	12.3	315.5	13.6 13.6	58 9	566.3	1,920.3	430.0	109.4 152.4	319.2
2009	631.0	466.3	138.6	12.1	9.9	309.6	7.1	39.8	517.1	1.614.3	466.3	139.9	318.7
2009 2010	631.0 718.7	466.3 544.4	147.1	13.3	9.9 12.1	297.3	7.1 10.3	39.8 41.1	517.1 521.2	1,784.2	466.3 544.4	139.9 148.0	318.7 320.6
2011	651.0	609.3 677.4	132.4 138.6 147.1 153.1 154.2 140.8 139.3 149.1	12.1 13.3 10.7 8.7	13.6	309.6 297.3 288.8 285.8 287.9 287.6 299.9	13.4	41.8 40.9 36.1 35.0	521.2 521.3 514.0 492.3 490.3 511.7	1,614.3 1,784.2 1,781.7 1,738.4	609.3 677.4	155.4 156.6 145.1 143.4 153.7	310.8 307.0
2012	547.0	677.4	154.2	8.7	13.0	285.8	11.5	40.9	514.0	1,738.4	677.4	156.6	307.0
2013 2014	565.1	625.9	140.8	91	11.4	287.9	6.9 7.7 6.8	36.1	492.3	1,683.2 1,716.8	625.9 650.6 701.6	145.1	309.8 309.6 323.0
2014 2015	575.9 494.3	650.6 701.6	139.3	9.1 9.0	11.6 11.1	207.6	1./	35.0 35.8	490.3	1,716.8 1,707.6	701.6	143.4	309.6
2015	494.3 410.2	701.6 715.0	162 3	9.0 8.6	10.4	308.8	11 0	36.0	511.7 539.0	1,707.6	701.0	160.7	3∠3.0 332.5
2016 2017	410.2 378.9	715.0 681.2	157.3	8.6	11.5	304.1	11.9 11.0	36.9 R 37.7	R 530.3	1,664.2 R 1,590.4	681.2	169.1 163.5	327.5
2018	377.2	771.2	151.3	8.6 8.6 9.5 10.2	11 4	308.8 304.1 304.0 314.6 319.2	7.2	R 35.1 34.3 35.1 R 37.1	R 518.6	R 1,666.9 1,595.2 1,497.4	715.0 681.2 771.2 748.7	156.4	326.0
2018 2019	377.2 317.2	771.2 748.7	150.9	10.2	12.1	314.6	7.2 7.1 5.2	34.3	529.3	1,595.2	748.7	156.4 155.9	336.6
2020	256.7	714 9	<sub>D</sub> 147.5	10.1	8.8	319.2	5.2	<sub>2</sub> 35.1	525.9	<sub>D</sub> 1,497.4	714.9	152.7 R 161.4	340.8
2021	309.8	R 739.9 787.2	149.1 162.3 157.3 151.3 150.9 147.5 R 158.9 155.1	10.2	9.6	359.7 357.2	8.6	H 37.1	539.0 R 530.3 R 518.6 529.3 525.9 R 581.9	'' 1,631.6	714.9 R 739.9 787.2	H 161.4	332.5 327.5 326.0 336.6 340.8 385.2 384.9
2022	297.7	/8/.2	155.1	10.0	9.6	357.2	8.8	37.9	576.6	1,661.5	/8/.2	157.4	384.9

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Alabama (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 21.3 R 24.2	45.7	NA	NA	NA	NA	45.7	0.0	NA	NA	R 67.0	R -46.8 R -92.7 R -64.4 R -35.1 R -25.0 R -42.7 R -82.8	0.0	R 842.3
1965	0.0	H 24.2 R 26.0	47.6	NA	NA	NA	NA	47.6	0.0	NA	NA	R 71.9 R 78.4	H -92.7	0.0	R 1,011.1 R 1,349.4
1970 1971	0.0 0.0	R 33.9	52.4 54.1 58.7	NA NA	NA NA	NA NA	NA NA	52.4 54.1	0.0 0.0	NA NA	NA NA NA	R 88.0	R -35.1	0.0 0.0	R 1,349.4 R 1,338.7 R 1,430.6 R 1,479.2 R 1,493.3
1972	0.0	R 34.9	58.7	NA	NA	NA	NA	58.7	0.0	NA	NA	R 88.0 R 93.7	R -25.0	0.0	R 1,430.6
1973	3.4	R 40.3 R 35.4	59.1 58.5	NA	NA	NA	NA	59.1	0.0	NA	NA NA	R 99.4 R 93.8	H -42.7	0.0	H 1,479.2
1974 1975	70.2 30.0	R 41.7	58.5 57.6	NA NA	NA NA	NA NA	NA NA	58.5 57.6	0.0 0.0	NA NA	NA NA	R 99.3	H -82.8 R -63.1 R -35.7 R -179.2 R -153.8 R -201.0 R -221.7 R -226.9 R -250.5 R -250.6 R -177.6	0.0 0.0	R 1,493.3
1976	46.6	Raga	62.9 66.7	NA	NA	NA	NA	62.9	0.0	NA	NA	H 95 2	_R -35.7	0.0	R 1,503.7
1977	210.2	R 35.3	66.7	NA	NA	NA	NA	66.7	0.0	NA	NA	R 102.0	H -179.2	0.0	R 1,465.8 R 1,503.7 R 1,584.7 R 1,589.7
1978 1979	249.8 240.3	R 26.9 R 40.5	66.6 67.9	NA NA	NA NA	NA NA	NA NA	66.6 67.9	0.0 0.0	NA NA	NA NA	R 93.5 R 108.4	n -153.8 R -201.0	0.0 0.0	R 1,589.7
1980	256.3	R 32.1	141 0	NA	NA	NA	NA	141.0	0.0	NA	NA	R 173.1 R 170.8	R -221.7	0.0	R 1,597.4 R 1,560.2
1981	260.8	R 20.6	150.2	0.0	NA	NA	0.0	150.2	0.0	NA	NA	R 170.8	R -226.9	0.0	R 1,560.2
1982	306.7 274.2	R 36.6 R 38.1	153.3 164.5	0.1	NA	NA	0.0	153.4 164.7	0.0	NA NA	NA 0.0	R 190.0 R 202.8	H -250.5	0.0	R 1,451.0
1983 1984	274.2 262.5	R 36.8	164.5 175.1	0.2 0.3	NA NA	NA NA	0.0 0.0	175.4	0.0 0.0	0.0	0.0 0.0	H 212 2	R -259.9	0.0 0.0	R 1,395.2 R 1,493.9 R 1,475.3
1985	152.0	R 23.5	175.4	1.3	NA	NA	0.0	176.7	0.0	0.0	0.0	H 200 2	R -177.6	0.0	R 1,475.3
1986 1987	122.3	R 17.9 R 25.5	159.0 151.7	2.0	NA	NA	0.0	160.9 155.7	0.0	0.0	0.0	R 178.9	R -138.9 R -90.5 R -118.7 R -126.5 R -201.8 R -253.3 R -262.3 R -245.6 R -245.6 R -391.6 R -317.0 R -317.0 R -309.9 R -318.3	0.0	R 1,475.3 R 1,458.3 R 1,541.8 R 1,616.1
1987	117.4 137.6	R 18.4	151.7	3.9 3.5	NA NA	NA NA	0.0 0.0	161.0	0.0 0.0	0.0 0.0	0.0 0.0	R 181.2 R 179.4	R -60 5	0.0 0.0	11,541.8 R 1 616 1
1989	122.0	R 44 9	165.0	2.0	NA	NA	0.0	167.0	(s)	0.0	0.0	R 212 n	R -118.7	0.0	H 1 620 0
1990	127.5	R 35.4 R 36.7	143.7 143.2	1.6	NA	NA	0.0	145.3	(s) (s) (s)	0.1	0.0	R 180.8 R 181.6	R -126.5	0.0	R 1,599.4 R 1,618.2
1991 1992	166.4 203.1	R 35.0	143.2 148.7	1.6 2.6	NA NA	NA NA	0.0 0.0	144.8 151.3	(s)	0.1 0.1	0.0 0.0	P 181.6 R 186.5	n -201.8	0.0 0.0	n 1,618.2
1992	187.2	R 30 8	174 9	1.4	NA NA	NA NA	0.0	176.2	(s) (s)	0.1	0.0	R 207.2	R -262.9	0.0	R 1.744.7
1993 1994	214.1	R 39 0	214.5	1.4 1.5	NA	NA	0.0	176.2 215.9	(s) (s)	0.2	0.0 0.0	R 207.2 R 255.1	R -245.6	0.0	R 1,691.9 R 1,744.7 R 1,822.3
1995	218.0	R 32.4 R 37.8	222.0 208.6	2.0	NA NA	NA	0.0	224.0	(s)	0.1	0.0 0.0	R 256.6 R 246.9	H -264.2	0.0	R 1,907.5 R 1,935.0
1996 1997	312.0 310.3	R 39.3	208.6 181.9	0.3 0.3	NA NA	NA NA	0.0 0.0	209.0 182.2	(s) (s)	0.1 0.1	0.0	H 221 7	R -358 2	0.0 0.0	T 1 QO2 /
1998	300.7	R 36 0	209.2	0.3	NA	NA	0.0	209.5	(s)	0.1	0.0	R 245 7	R -317.0	0.0	R 1,946.4 R 2,002.2 R 2,065.1
1999 2000	322.8	R 26.5 R 19.8	210.7	(s) 0.0	NA	NA	0.0	210.7	0.1	0.1	0.0 0.0	R 237.4 R 223.8	R -309.9	0.0	R 2,002.2
2000	327.1 317.0	R 19.8	203.8 165.0	0.0 1.3	NA (s)	NA NA	0.0 0.0	203.8 166.3	0.1 0.1	0.1 0.1	0.0	R 195.0	n -318.3 R -373 6	0.0 0.0	R 1 850 6
2002	332.7	R 30.1	162.8	0.9	(s)	NA	0.0	163.7	0.1	0.1	0.0	R 193.9	R -404.9	0.0	R 1,859.6 R 1,920.0
2003	330.1	R 43 2	155.1	1.3	(s) 0.1	NA	0.0	156.4	0.1	0.1	0.0	H 199 7	R -428.8	0.0	R 1,897.0 R 2,017.8
2004 2005	329.9 330.8	R 36.3 R 34.6	184.1 178.0	2.5 0.2	0.1 0.2	NA NA	0.0 0.0	186.7 178.4	0.1 0.1	0.1 0.1	0.0 0.0	R 223.1 R 213.2	H -391.1	0.0 0.0	H 2,017.8
2005	333.0	R 24 7	194.1	0.2	0.2	NA NA	0.0	194.9	0.1	0.1	0.0	R 210 7	R -401 8	0.0	R 2,018.9 R 2,050.9
2007	360.0	H 14.1	187.1	0.2 0.5	0.8	NA	(s)	188.4	0.1	0.1	0.0	R 202.7	R -415.6	0.0	H 2 067 5
2008	407.6	R 20.9	172.7	3.7	0.7	NA	(s)	177.2	0.1	0.1	0.0	H 198.3	H -452.7	0.0	n 1 9 / 6 6
2009 2010	415.4 396.6	R 42.8 R 29.7	142.0 157.1	9.1 23.3	0.8 0.6	NA NA	(s) 0.0	151.9 181.0	0.1 0.1	0.1 0.1	0.0 0.0	R 194.8 R 210.9	n -4/4./ R -485.5	0.0 0.0	R 1,749.8 R 1,906.3
2011	411.8	R 30.3	169.3	22.0	2.1	0.0	0.0	193.5	0.1	0.1	0.0	R 224.0	R -535.0	0.0	H 1 992 5
2012 2013	428.0 426.5	R 25.4	171.1	21.3 21.9	2.6	0.0	(s) (s)	195.0	0.1	0.1	0.0	R 220 6	R -523.5	0.0	R 1,863.4
2013 2014	426.5 431.4	R 44.0 R 32.3	187.2 178.2	21.9	4.4 3.4	0.0 0.0	(s) (s)	213.6 203.6	0.1 0.1	0.1 0.1	0.0 0.0	R 257.8 R 236.2	n -485.1	0.0 0.0	<sup>n</sup> 1,882.4
2014	431.4	R 33 6	178.2	22.1 23.1	4.3	0.0	(S) (S)	192.3	0.1	0.1	0.0	R 226 1	R .373.6 R .404.8 R .428.8 R .391.1 R .401.8 R .415.6 R .452.7 R .474.7 R .485.5 R .535.0 R .523.5 R .485.1 R .455.0	0.0	R 1,863.4 R 1,882.4 R 1,929.3 R 1,880.5
2016	417.3	R 23 8	163.8 168.8	23.7 23.5	7.0	0.0	(s)	194.5	0.1	0.1 R 0.2 R 0.7	0.0	R 218 7	R -404.4 R -399.4	0.0	R 1,895.7 R 1,867.5
2017	446.1	H 31.5	168.8	23.5	5.8	0.0	(s)	198.1	0.1	H 0.7	0.0	n 230.5	H -399.4	0.0	H 1,867.5
2018 2019	412.6 455.9	R 38.0 R 38.9	168.4 _ 166.0	22.0 22.1	5.8 5.2	0.0 0.0	(s)	196.2 _ 193.3	0.1 0.1	R 1.3 R 1.4	0.0 0.0	R 235.7 R 233.8	R -401.8 R -400.9 R -393.6 R -424.8	0.0 0.0	R 1,913.5 R 1,883.9
2020	454.9	R 45.5	R 160.3 R 167.0	21.6	5.4	0.0	(s) (s)	R 1873	0.1	H14	0.0	H 234.3	B -393.6	0.0	R 1,793.1 R 1,924.5
2021	R 480.1	R 39.3	R 167.0	25.4	R 3.9	0.0	(s)	<sup>H</sup> 196.3	0.1	H 1.8	0.0	H 237.6	R -424.8	0.0	R 1,924.5
2022	441.3	34.8	163.4	27.6	3.4	0.0	(s)	194.4	0.1	3.2	0.0	232.5	-433.0	0.0	1,902.4

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Alabama

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil b	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet	<u>'</u>		1	housand barrels	<b>s</b>	<u> </u>		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	8,314	175	5,393	3,211	1,126	24,578	4,292	4,898	43,498	26					15,485			
1970	11,322	283	8,486	7,583	1,799	37,003	3,290	7,458	65,619	25					34,713			
1980	7,449 5,630	268	15,059	4,949	2,048	44,296	7,296	8,728	82,377 88,200	24					50,367			
1990 2000	4,468	240 311	21,447 24,138	4,160 7,381	1,899 2.348	49,199 57.162	3,915 4,229	7,581 8.090	103.349	0					59,926 83,524			
2005	3,571	248	29,619	3,007	2,466	62,866	1,778	11,044	110,780	0					89,202			
2006	3,383	246	29,862	3,371	2,313	63,465	2,258	10,772	112,042	0					90,678			
2007 2008	3,190 3,141	243 240	29,135 26,158	3,925 3,627	2,321 2,169	64,300 62,517	2,161 2,162	9,614 9,345	111,458 105,979	0					91,828 89,707			
2009	2,316	227	24,031	3,217	1,744	62,614	1,126	6,421	99,154	0					82,845			
2010	2,685	253	25,411	3,455	2,131	63,265	1,640	6,634	102,535	0					90,863			
2011 2012	2,519 2,674	256 265	26,752 27,017	2,779 2,262	2,395 2,289	61,385 60,653	2,124 1,823	6,739 6,586	102,175 100,629	0					88,995 86,183			
2012	2,834	282	25,068	2,262	2,269	61,223	1,105	5,798	97,580	0					87,852			
2014	3,234	289	24,708	2,370	2,051	61,205	1,229	5,623	97,185	0					90,494			
2015	2,554	284	26,541	2,338	1,958	63,872	1,088	5,777	101,575	0					88,846			
2016 2017	2,358 2,263	282 281	29,309 28,350	2,238 2,237	1,841 2,034	65,767 64,822	1,899 1,758	R 5,865 R 6,035	R 106,919 R 105,236	0					88,225 86,242			
2017	2,174	319	27,019	2,478	2,034	64,505	1,148	R 5,623	R 102,792	0					90,280			
2019	1,781	309	27,048	2,661	2,134	66,636	1,137	R 5,505	R 105,120	0					88,095			
2020	1,325	297	26,518	2,632	1,548	67,450	824	5,626	104,599	0					83,396			
2021 2022	1,444 1,221	327 310	R 27,961 27,224	2,657 2,605	1,696 1,699	76,272 76,229	1,371 1,405	R 5,977 6,102	R 115,934 115,265	0					85,585 87,028			
									Trillion	Btu								
1960	220.1	181.0	31.4	12.3	6.1	129.1	27.0	30.2	236.0	R <sub>0.1</sub>	45.7	NA	NA	NA	52.8	R 735.8	R 106.5	R 842.3
1970	294.9	291.8	49.4	28.8	9.9	194.4	20.7	46.0	349.2	R <sub>0.1</sub>	52.4			NA	118.4	R 1,106.8	R 242.6	R 1,349.4
1980	192.5	276.8	87.7	18.4	11.3	232.7	45.9	53.6	449.6	R 0.1	141.0			NA	171.9	R 1,231.9	R 365.6 R 401.0	R 1,597.4 R 1,599.4
1990 2000	145.9 118.0	246.8 325.1	124.9 140.5	15.6 27.7	10.6 13.3	258.4 297.3	24.6 26.6	48.0 51.6	482.1 557.0	0.0	117.7 200.5			0.1 0.1	204.5 285.0	1,198.4 1,485.8	R 579.3	R 2,065.1
2005	90.5	255.8	172.3	11.2	14.0	326.4	11.2	70.3	605.4	0.0	174.7			0.1	304.4	1,431.0	R 587.9	R 2,018.9
2006	86.0	252.3	173.3	12.5	13.1	329.1	14.2	68.2	610.4	0.0	190.4			0.1	309.4	1,449.3	R 601.6	R 2,050.9
2007	81.5	249.1	168.5	14.4	13.2	330.6	13.6	60.5	600.8	0.0	183.5			0.1	313.3	1,429.2	R 638.3	R 2,067.5
2008 2009	80.7 59.6	245.4 233.6	151.2 138.8	13.6 12.1	12.3 9.9	319.2 318.7	13.6 7.1	58.9 39.8	568.8 526.4	0.0	169.1 137.1	(s) (s)	0.1 0.1	0.1 0.1	306.1 282.7	1,371.0 1,239.5	R 605.5 R 510.8	R 1,976.6 R 1,750.3
2010	68.8	257.0	146.7	13.3	12.1	320.6	10.3	41.1	544.1	0.0	151.9			0.1	310.0	1,332.0	R 574.5	R 1,906.5
2011	65.0	259.9	154.4	10.7	13.6	310.8	13.4	41.8	544.6	0.0	164.7			0.1	303.7	1,338.0	R 544.7	R 1,882.7
2012	72.9	269.7	155.8	8.7	13.0	307.0	11.5	40.9	536.8	0.0	167.2		0.1	0.1	294.1	1,340.9	R 522.3	R 1,863.2
2013 2014	76.4 87.3	286.1 295.5	144.5 142.4	9.1 9.1	11.4 11.6	309.8 309.6	6.9 7.7	36.1 35.0	517.8 515.4	0.0	183.1 173.1	(s) (s)	0.1 0.1	0.1 0.1	299.8 308.8	1,363.4 1,380.3	R 518.8 R 549.7	R 1,882.2 R 1,930.0
2014	69.5	291.5	152.9	9.0	11.1	323.0	6.8	35.8	538.7	0.0	160.3		0.1	0.1	303.1	1,363.4	R 517.5	R 1,880.9
2016	64.6	289.4	168.7	8.6	10.4	332.5	11.9	36.9	569.1	0.0	159.0		0.1	0.1	301.0	R 1,383.3	R 512.2	R 1,895.6
2017	62.8	289.2	163.2	8.6	11.5	327.5	11.0	R 37.7	R 559.7	0.0	164.1	(s)	0.1	_ 0.1	294.3	R 1,370.3	R 497.6	R 1,867.9
2018	59.9	328.0	155.6	9.5	11.4	326.0	7.2	R 35.1	R 544.9	0.0	R 165.1		0.1	R 0.1 R 0.1	308.0	R 1,406.1	R 506.7	R 1,912.8
2019 2020	48.8 36.7	318.1 306.3	155.8 152.6	10.2 10.1	12.1 8.8	336.6 340.8	7.1 5.2	34.3 35.1	556.2 552.6	0.0	165.5 R 159.8		0.1 0.1	" 0.1 R 0.1	300.6 284.5	R 1,389.4 R 1,340.3	R 494.4 R 452.7	R 1,883.7 R 1,793.0
2020	39.5	R 337.5	R 161.2	10.1	9.6	340.6	8.6	R 37.1	R 611.8	0.0	R 166.4	(s)	0.1	R 0.1	292.0	R 1,447.6	R 477.7	R 1,925.3
2022	33.1	318.8	156.9	10.0	9.6	384.9	8.8	37.9	608.2	0.0	162.9			0.1	296.9	1,420.3	483.0	1,903.3

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Alabama

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	162	41	36	1,787	163	1,986				4,129			
1965 1970	162 56 71		36 24 36	2,273	169 236	2,465 4,456				6,150 11,527			
1970	71	56	36	4.185	236	4,456				11,527			
1975 1980 1985	6	48 56 52 52 44	74	3,331 2,202	134	3,539 2,413 1,872				13,409 16,469 17,182			
1980	48 27	52	13 24	2,202	198 73	2,413				16,469			
1985	2/	44	24	1,776	/3	1,8/2				17,182			
1990	21	45 50 47	17 10	2,286 2,423	38 66	2,342 2,500				20,719 24,314 28,756 31,315 32,277 32,783			
1995 2000	6	30 47	12	2,423 4,189	46	4,247				24,314			
2000		47	1/	4,109	40 75	4,247				20,730			
2005 2006	(s) 2	42 38 35 38 36 42	14 9	1,615 1,664	75 50 32	1,704 1,723			==	32 277			
2007	(s)	35	8	1,782	32	1 823				32 783			
2008	0	38	9	1,970	8	1,988 2,139 2,350				32,185 31,489 35,529			
2008 2009 2010	Ŏ	36	97 121	2.030	11	2.139				31,489			
2010	0	42	121	2,030 2,214	15	2,350				35,529			
2011	0	37 28	11	1,530	12 3	1,553				33,003 30,632			
2012	0	28	18	1,096	3	1,116				30,632			
2013	0	35 39 33 28 26 35 31	15	1,220 1,287 1,405	3	1,238 1,308 1,429				31,379 32,930 31,909			
2014 2015	0	39	18 21	1,287	4	1,308				32,930			
2015	0	33	21	1,405	3	1,429				31,909			
2016 2017	0	28	16	1,312	2	1,330 1,254				32,056 30,181			
2017	0	26	14 12	1,239 1,495	2	1,254 1,509				33,080			
2019	0	31	4	1,571	2	1,577				32,416			
2020	ŏ	28	2	1,511	1	1,514				31,331			
2021	ŏ	32	25	1,174	2	1,201				31,585			
2022	0	28 32 30	26	1,196	2	1,224				32,924			
							Trillion Btu						
1960	4.0	12.3	0.2	6.9	0.9	8.0	21.7	NA	NA	14.1	90.1	R 28.4	R 118 5
1965	1.4	49.7	0.1	8.7	1.0	9.8	15.3	NA	NA	21.0	97.2	R 41 3	R 138.5
1970	1.7	57.5	0.2	16.1	1.3	17.6	10.3	NA	NA	39.3	126.5	R 80.6	R 207.0
1965 1970 1975	0.1	42.3 49.7 57.5 53.8	0.4	12.8	1.3 0.8	17.6 14.0	10.6	NA	NA	39.3 45.8	124.3	R 93.4	R 118.5 R 138.5 R 207.0 R 217.7 R 257.0 R 260.3 R 280.9 R 316.4 R 370.2 R 367.9 R 374.4 R 387.5
1980	1.2	54.1	0.1	8.5	1.1	9.7	16.3	NA	NA	56.2	137.4	R 119.5	R 257.0
1985 1990 1995	0.7	45.4	0.1	6.8	0.4	7.4	29.1	NA	NA	58.6	141.1	R 119.1	R 260.3
1990	0.5	46.7 51.0	0.1	8.8	0.2	9.1	15.1	(s)	0.1	70.7	142.2	H 138.7	H 280.9
1995	(s) 0.1	51.0	0.1	9.3	0.4	9.7	12.0	(s)	0.1	83.0	155.9	n 160.5	n 316.4
2000 2005		49.5	0.1	16.1	0.3	16.4	6.5	(s)	0.1	98.1	170.8	n 199.4	n 3/0.2
2005	(s) 0.1	43.3 39.2	0.1	6.2	0.4 0.3	6.7	4.6	(s)	0.1 0.1	106.8	161.6	11 206.4 B 04.4.4	11 367.9 B 074.4
2006 2007 2008		39.2	0.1	6.4 6.8	0.3	6.7 7.1	4.1 4.5	(s) 0.1	0.1	110.1 111.9 109.8	160.3 160.0	R 214.1	H 3/4.4
2007	(s) 0.0	36.4 38.7	(s) 0.1	7.6		7.1	5.0	0.1	0.1	100.8	161.3	R 217.9	R 278 5
2000	0.0	37.0	0.6	7.0	(s) 0.1	8.4	6.7	0.1	0.1	103.0	159.7	R 10/11	R 353.9 R 405.3
2009 2010	0.0	37.0 42.9	0.7	7.8 8.5	0.1	9.3	7.1	0.1	0.1	107.4 121.2	180.7	R 224 6	R 405.3
2011	0.0	37.2	0.1	5.9	0.1	6.0	6.9	0.1	0.1	112.6	162.9	R 202.0	R 364.9
2012	0.0	28.0	0.1	4.2	(s)	6.0 4.3	5.8	0.1	0.1	104.5	162.9 142.8	R 185.6	R 328.5
2013	0.0	37.2 28.0 35.6	0.1	5.9 4.2 4.7	(s)	4.8	6.9 5.8 7.6	0.1	0.1	112.6 104.5 107.1	155.2	R 28.4 R 41.3 R 80.6 R 93.4 R 119.5 R 119.1 R 138.7 R 160.5 R 199.4 R 206.4 R 214.1 R 227.9 R 217.2 R 194.1 R 222.6 R 202.0 R 185.3 R 200.0 R 185.9 R 186.1 R 174.1 R 185.7 R 181.9 R 181.9	R 364.9 R 328.5 R 340.5
2014	0.0	39.8	0.1	4.9	(s)	5.1	77	0.1	0.1	1124	165 1	R 200.0	n 365 1
2015	0.0	33.7 29.2	0.1	5.4 5.0	(s)	5.5	2.1 R 1.8	0.1	0.1	108.9 109.4 103.0	150.4 145.6	H 185.9	R 336.2 R 331.7 R 310.7
2016	0.0	29.2	0.1	5.0	(s)	5.1	H 1.8	0.1	0.1	109.4	145.6	H 186.1	H 331.7
2017	0.0	27.1	0.1	4.8	(s)	4.8	1.5	0.1	0.1	103.0	136.6	H 174.1	H 310.7
2018 2019	0.0	35.7 31.5	0.1	5.7	(s)	5.8	2.0	0.1	0.1	112.9	156.6 150.3	n 185.7	R 342.2 R 332.2
2019	0.0	31.5	(s)	6.0	(s)	6.1	2.0	0.1	0.1	110.6	150.3 B 440.0	" 181.9 B 470.4	1 332.2 B 040.0
2020 2021	0.0 0.0	29.0	(s) (s) 0.1	5.8	(s) (s)	5.8 4.7	" 1.3 R 1 2	0.1 0.1	0.1 0.1	112.9 110.6 106.9 107.8	R 143.2 R 147.1	170.1 R 176.3	H 313.3
2021	0.0	29.0 33.2 31.3	0.1	5.8 4.5 4.6	(S)	5.8 4.7 4.8	2.0 2.0 R 1.3 R 1.3 1.6	0.1	0.1	112.3	150.2	182.7	R 313.3 R 323.4 332.9
	0.0	01.0	0.1	7.0	(3)	₹.0	1.0	0.1	0.1	112.0	100.2		

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Alabama

1960   112   172   264   685   284   387   (a)   1,577   NA     NA   2,389       1970   486   38   284   1873   308   389   (b)   2,585   NA     NA   5,144       1970   486   38   384   308   389   (b)   2,585   NA     NA   5,144       1970   486   38   547   1276   242   453   1   2,528   NA     NA   5,144       1980   18   28   38   48   18   28   38   18   28   38   18   28   38   38   28   38   28   38   3						Pet	roleum				Biomass						
Thousand   Billion   Thousand barrels   Thousand		Coal			HGL <sup>b</sup>	Kerosene			Total d	eléctric			Solar <sup>f,h</sup>	Electricity <sup>i</sup>			
1970   56   36   264   1,003   428   381   (g)   2,885   NA       NA   5,144       1,003   1	Year					Thousa	and barrels				and	Geothermal <sup>f</sup>			End use <sup>f,j</sup>	energy	Total <sup>f,j</sup>
1970   56   36   264   1,003   428   381   (g)   2,885   NA       NA   5,144       1,003   1	1960	112	17	264	685	294	327	(s)	1,571	NA			NA	2,390			
1975	1965 1970		32 36				327 391		1,679 2,685								
1988	1975	14	33	547	1,276	242	453	`1	2,519	NA			NA	6,493			
1990   84	1980 1985		29 26	641 913			258 251		1,922 2,373				NA NA	7,190 8,805			
2000 47 266 748 1,605 9 41 (s) 2,403 0 0 19,734 20,735 20,60 2 2 1743 50,4 18 44 68 1,544 0 0 0 21,806 20,73 20,73 2 2 1743 50,4 18 44 68 1,544 0 0 0 21,806 20,73 20,70 2 2 1,74 2 1	1990	84	24	739	876	11	258	606	2,489	0			0	11,589			
2006 2 2 25 749 524 18 44 8 1,344 0 0 21,698 2006 21 22 1,538 679 18 13 2 45 0 1,595 0 0 22,120 2008 1 23 1,538 679 81 813 2 45 0 1,595 0 0 22,120 2008 1 23 1,538 679 81 813 2 45 0 1,595 0 0 22,120 2008 1 25 1,138 658 2 2 44 4 0 1,551 0 0 0 22,533 2009 0 24 977 573 1 45 0 1,595 0 0 0 1,918 2010 0 25 1,138 658 2 2 44 4 0 1,533 0 0 0 (2),138 2010 0 25 1,138 658 2 2 44 4 0 1,533 0 0 0 (3),22,94 2011 0 0 25 1,138 658 2 2 44 4 0 1,533 0 0 0 (3),22,94 2011 0 0 25 1,138 658 2 2 44 4 0 1,533 0 0 0 (3),22,94 2011 0 0 25 1,138 658 2 2 44 0 0 1,533 0 0 0 (3),22,94 2011 0 0 25 1,138 658 2 2 46 0 1,535 0 0 0 3,22,93 2011 0 0 25 1,138 658 2 2 46 0 0 1,585 0 0 3 3,22,93 2011 0 0 25 1,138 658 2 2 46 0 0 1,585 0 0 3 3,22,93 2011 0 0 25 1,138 658 2 2 46 0 0 1,585 0 0 3 3,22,93 2011 0 0 25 1,138 658 2 2 46 0 0 1,585 0 0 3 3,22,93 2011 0 0 25 1,138 658 2 2 46 0 0 1,585 0 0 3 3,22,93 2011 0 0 25 1,138 658 2 2 46 0 0 1,585 0 0 3 3,22,93 2011 0 0 25 1,138 658 2 2 46 0 0 1,585 0 0 1,	1995		26	644	928	10	42		1,626					12,845			
2007 1 23 1,265 629 5 45 0 1,944 0 0 22,873 2008 0 25 991 813 2 1 45 0 1,855 0 0 0 22,873 2010 0 27 1,138 655 2 44 0 0 1,855 0 0 0 22,838 2011 0 25 1,210 689 2 44 0 0 1,455 0 0 0 22,838 2012 0 22 1,122 689 2 44 0 0 1,455 0 0 0 22,873 2012 0 22 1,122 689 2 44 0 0 1,455 0 0 0 22,873 2013 0 22 1,122 689 2 2 44 0 0 1,455 0 0 1 2,1799 2015 0 22 1,122 689 2 2 44 0 0 1,701 0 1 1 2,1799 2016 0 22 1,122 689 2 2 44 0 0 1,701 0 1 1 2,1799 2017 0 22 1,122 689 2 2 44 0 0 1,701 0 1 1 2,1799 2018 0 22 1,122 689 2 2 44 0 0 1,701 0 3 3 22,638 2018 0 2 2 755 582 2 4 44 0 1,555 0 0 3 3 22,638 2018 0 2 2 8 755 582 2 4 44 0 1,555 0 0 3 3 22,638 2018 0 2 2 8 751 438 2 1,027 0 2,218 0 0 3 3 22,638 2018 0 2 2 8 841 447 2 1,312 0 2,606 0 5 5 22,634 2019 0 2 2 8 841 5500 1 1 1,052 0 0 2,218 0 0 5 5 22,634 2019 0 2 2 8 841 5500 1 1 1,052 0 0 2,444 0 0 5 5 22,744 2020 0 2 2 8 85 560 2 2 1,121 10 2,446 0 0 5 7 22,744 2020 0 2 2 8 85 71 61 2 1,305 4 3,359 0 10 2,308 0 2020 0 2 2 8 857 611 2 1,305 4 2,679 0 0 10 2,308 0 2020 0 2 2 8 857 611 2 1,305 4 2,679 0 0 16 2,239 1 2020 0 2 2 8 85 3 2 2 4 4 4 4 4 4 4 1,4 4	2005	2	25	749	524	18	44	(s) 8	1,344				•	21,608			
2008 0 25 991 813 2 45 0 1,861 0 0 22,533 2009 0 24 977 573 1 45 0 1,569 0 0 22,533 2010 0 24 977 573 1 45 0 1,569 0 0 22,548 2011 0 0 25 1,130 689 2 44 0 1,845 0 0 9 22,548 2012 0 22 1,122 534 1 44 0 1,701 0 1 9 22,548 2013 0 25 5 755 588 2 1 46 0 1,365 0 3 3 22,603 2014 0 25 6 757 588 3 1 1,129 1 1,120 1 1,120 1 1 1,120		23	24	1,533		10	45 45	1	2,258	•			•				
2010   0   27	2008		25	991	813		45	0	1,851	Ö				22,533			
2012 0 22 1,122 534 1 44 0 1,701 0 1 1 21,799 2013 0 22,603 2014 0 25 7,35 542 2 4 64 0 1,365 0 3 3 22,603 2014 0 0 25 7,35 542 2 4 64 0 1,365 0 0 3 3 22,603 2016 0 25 6,751 548 3 1,407 0 1,201 0 0 2,508 0 0 3 3 22,603 2017 0 23 841 530 0 1 1,052 0 0 2,508 0 0 5 5 23,634 2017 0 23 841 530 1 1,052 0 0 2,424 0 0 5 5 22,744 2018 0 0 2,7 899 560 2 1,112 11 2,544 0 0 7 7 23,483 2019 0 25 803 550 2 1,112 1 0 2,476 0 0 10 23,076 10 22,076 2019 0 25 803 550 2 1,112 1 0 2,476 0 0 10 23,076 2019 0 25 803 550 2 1,121 0 2,476 0 0 10 23,076 202,000 0 23 644 578 3 1,123 11 2,565 0 0 10 23,076 202,000 0 26 857 611 2 1,986 4 3,359 0 16 22,081 18 22,081	2009		24		573	1	45		1,595	•			•	21,918			
2012 0 22 1,122 534 1 44 0 1,701 0 1 1 21,799 2013 0 22,603 2014 0 25 7,35 542 2 4 64 0 1,365 0 3 3 22,603 2014 0 0 25 7,35 542 2 4 64 0 1,365 0 0 3 3 22,603 2016 0 25 6,751 548 3 1,407 0 1,201 0 0 2,508 0 0 3 3 22,603 2017 0 23 841 530 0 1 1,052 0 0 2,508 0 0 5 5 23,634 2017 0 23 841 530 1 1,052 0 0 2,424 0 0 5 5 22,744 2018 0 0 2,7 899 560 2 1,112 11 2,544 0 0 7 7 23,483 2019 0 25 803 550 2 1,112 1 0 2,476 0 0 10 23,076 10 22,076 2019 0 25 803 550 2 1,112 1 0 2,476 0 0 10 23,076 2019 0 25 803 550 2 1,121 0 2,476 0 0 10 23,076 202,000 0 23 644 578 3 1,123 11 2,565 0 0 10 23,076 202,000 0 26 857 611 2 1,986 4 3,359 0 16 22,081 18 22,081			27 25	1,210	689		44		1,945					22,257			
2014 0 28 677 568 3 444 0 1,291 0 3 22,929 2015 0 0 25 751 438 2 1,027 0 2,218 0 0 3 22,348 2016 0 24 844 447 2 1,312 0 2,266 0 0 5 23,634 2017 0 24 844 447 2 1,312 0 2,266 0 0 5 23,634 2018 0 277 859 850 1 1,121 1 0 2,476 0 0 7 7 23,483 2019 0 25 803 550 2 1,121 0 2,476 0 10 23,076 2019 0 25 803 550 2 1,121 0 2,476 0 10 23,076 2020 0 23 644 578 3 1,129 11 2,365 0 10 23,076 2021 0 26 837 611 2 1,906 4 2,767 0 13 21,844 2022 0 26 837 611 2 1,906 4 3,359 0 16 22,391 2022 0 26 837 611 2 1,906 4 3,359 0 16 22,391 2023 0 28 18.1 1.5 2.6 1.7 1.7 (s) 7.8 NA 0.4 NA NA 8.2 37.0 P 16.4 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97	2012		22	1,122	534	1			1,701				`1				
2017 0 23 841 530 1 1.052 0 2.424 0 5 22.744 2018 0 27 859 560 2 1.112 11 2.544 0 7 7 23.483 2019 0 25 803 550 2 1.121 0 2.476 0 10 23.076 2019 0 25 803 550 2 1.122 11 2.665 0 10 23.076 2019 0 23.6 644 578 3 1.129 11 2.665 0 10 23.076 2019 0 26 815 716 2 1.142 4 2.679 0 0 13 21.844 2019 0 26 815 716 2 1.142 4 2.679 0 0 13 21.844 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 11 21.244			28		568				1,365								
2017 0 23 841 530 1 1.052 0 2.424 0 5 22.744 2018 0 27 859 560 2 1.112 11 2.544 0 7 7 23.483 2019 0 25 803 550 2 1.121 0 2.476 0 10 23.076 2019 0 25 803 550 2 1.122 11 2.665 0 10 23.076 2019 0 23.6 644 578 3 1.129 11 2.665 0 10 23.076 2019 0 26 815 716 2 1.142 4 2.679 0 0 13 21.844 2019 0 26 815 716 2 1.142 4 2.679 0 0 13 21.844 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 10 21.308 11 21.244		0	25	751	438					•			•				
2018 0 27 859 560 2 1,112 11 2,544 0 7 23,483 2019 0 25 803 550 2 1,121 0 2,476 0 10 23,076 2020 0 23 644 578 3 1,129 11 2,365 0 10 23,076 2021 0 26 815 716 2 1,142 4 2,679 0 13 21,844 2022 0 26 857 611 2 1,906 4 3,358 0 16 22,391 2022 0 26 857 611 2 1,906 4 3,358 0 16 22,391 2022 0 26 857 611 2 1,906 4 3,358 0 16 22,391 2022 0 26 857 611 2 1,906 4 3,358 0 16 22,391 2022 0 26 857 611 2 1,906 4 3,358 0 16 22,391 2022 0 28 18.1 1.5 2.6 1.7 1.7 (s) 7.6 NA 0.4 NA NA 8.2 37.0 R 16.4 1965 1.1 33.0 1.0 3.3 1.7 1.7 (s) 7.6 NA 0.3 NA NA 11.7 54.0 R 25.1 1970 1.3 37.4 1.5 6.2 2.4 2.1 (s) 12.2 NA 0.2 NA NA 17.6 68.6 R 36.0 R 25.1 1970 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.2 NA 0.2 NA NA 17.6 68.6 R 36.0 R 25.1 1970 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.3 NA 0.2 NA NA NA 22.2 68.9 R 45.2 19.9 NA 1985 2.3 26.8 S.3 3.4 0.1 1.3 3.2 12.6 NA 0.4 NA NA 17.6 68.6 R 36.1 1995 0.2 27.0 3.7 3.6 0.1 1.3 3.2 12.6 NA 0.7 NA NA NA 22.2 68.9 R 45.2 19.9 NA 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 NA 0.2 NA NA NA 3.2 8 86.1 R 45.2 19.9 NA 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 NA 0.0 1.7 NA NA NA 3.0 0.7 NA NA NA 22.6 R 3.1 R 47.6 NA 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 NA 0.0 1.7 NA NA NA 3.0 0.7 NA NA NA 3.0 0.7 NA NA NA 3.2 8 86.1 R 45.2 19.0 NA 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 NA 0.0 1.7 NA NA NA 3.0 0.7 NA NA NA 3.2 8 86.1 R 47.6 NA 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 NA 0.0 1.7 NA NA NA 3.0 0.7 NA NA NA 3.2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2016	0	24			1			2,606	•				23,634			
2020 0 23 644 578 3 1,129 11 2,365 0 10 21,308 2021 0 26 815 716 2 1,142 4 2,679 0 16 22,391 2022 0 26 837 611 2 1,906 4 3,359 0 16 22,391 17 2022 0 26 837 611 2 1,906 4 3,359 0 16 22,391 18 21,844 18 22,391 18	2018		27	859	560		1,112	11	2.544				7	23,483			
2021 0 26 815 716 2 1,142 4 2,679 0 13 21,844 2022 0 26 837 611 2 1,906 4 3,3599 0 16 22,391  Trillion Btu  1960 2.8 18.1 1.5 2.6 1.7 1.7 (s) 7.6 NA 0.4 NA NA NA 8.2 37.0   16.4 1965 1.1 33.0 1.0 3.3 1.7 1.7 (s) 7.8 NA 0.3 NA NA 11.7 54.0   17.5 1970 1.3 37.4 1.5 6.2 2.4 2.1 (s) 12.2 NA 0.2 NA NA 11.6 68.6   36.0 1975 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.8 NA 0.2 NA NA 12.2 68.9   18.5 1980 1.3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		•			550 578			•		•							
1960   2.8   18.1   1.5   2.6   1.7   1.7   (s)   7.6   NA   0.4   NA   NA   8.2   37.0   P. 16.4   1965   1.1   33.0   1.0   3.3   1.7   1.7   (s)   7.8   NA   0.2   NA   NA   NA   11.7   54.0   P. 23.1   1970   1.3   37.4   1.5   6.2   2.4   2.1   (s)   12.2   NA   0.2   NA   NA   NA   11.7   54.0   P. 23.1   1975   0.3   34.4   3.2   4.9   1.4   2.4   (s)   11.8   NA   0.2   NA   NA   NA   17.6   68.6   P. 36.0   1975   0.3   34.4   3.2   3.2   1.0   1.4   2.4   (s)   11.8   NA   0.2   NA   NA   NA   22.2   68.9   P. 45.2   1985   2.3   26.8   5.3   2.6   0.1   1.3   3.2   12.6   NA   0.7   NA   NA   30.0   72.5   P. 61.1   1985   2.3   26.8   5.3   2.6   0.1   1.3   3.2   12.6   NA   0.7   NA   NA   30.0   72.5   P. 61.1   1985   0.2   27.0   3.7   3.6   0.1   0.2   (s)   7.6   0.0   1.6   0.0   0.0   39.5   81.1   1985   0.2   27.0   3.7   3.6   0.1   0.2   (s)   7.6   0.0   1.6   0.0   0.0   43.8   80.2   1985   0.2   27.0   3.7   3.6   0.1   0.2   (s)   7.6   0.0   1.6   0.0   0.0   43.8   80.2   1985   0.2   27.0   3.7   3.6   0.1   0.2   (s)   7.6   0.0   1.6   0.0   0.0   0.0   1.2   26.7   4.4   6.2   0.1   0.2   (s)   10.8   0.0   1.1   0.0   0.0   0.7   1.3   2005   (s)   25.8   4.4   2.0   0.1   0.2   0.1   6.8   0.0   0.7   0.0   0.0   73.7   107.1   1.4   4.4   4.4   4.5   4.	2021	Ö	26	815	716	2	1,142	4	2,679				13	21,844			
1960 2.8 18.1 1.5 2.6 1.7 1.7 (s) 7.6 NA 0.4 NA NA 8.2 37.0   \$\bar{n}\$ 16.4 1965 1.1 33.0 1.0 3.3 1.7 1.7 (s) 7.8 NA 0.3 NA NA NA 11.7 54.0 \$\bar{n}\$ 23.0 1.0 1.3 33.0 1.0 3.3 1.7 1.7 (s) 12.2 NA 0.2 NA NA NA 11.7 6 88.6 \$\bar{n}\$ 36.0 1975 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.8 NA 0.2 NA NA NA NA 22.2 \$\bar{n}\$ 88.9 \$\bar{n}\$ 36.0 1975 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.8 NA 0.2 NA NA NA 22.2 \$\bar{n}\$ 88.9 \$\bar{n}\$ 43.2 2.5 \$\bar{n}\$ 9.3 NA 0.4 NA NA 0.2 NA NA NA 0.2 NA NA NA 0.2 NA NA NA 0.2 NA NA NA 0.2 NA NA NA 0.2 NA NA NA 0.2 NA NA 0.2 NA NA NA NA 0.2 NA	2022	U	26	837	ын	2	1,906	4	· · · · · · · · · · · · · · · · · · ·				16	22,391			
1965 1.1 33.0 1.0 3.3 1.7 1.7 (s) 7.8 NA 0.3 NA NA 11.7 54.0 123.1 1970 1.3 37.4 1.5 6.2 2.4 2.1 (s) 12.2 NA 0.2 NA NA 17.6 68.6 1736.0 1975 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.8 NA 0.2 NA NA 17.6 68.6 1736.0 1975 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.8 NA 0.2 NA NA 22.2 68.9 145.2 1986 2.3 26.8 5.3 26.6 0.1 1.4 (s) 9.3 NA 0.4 NA 0.2 NA NA 24.5 68.1 1752.2 1985 2.3 26.8 5.3 26.0 1.1 1.3 3.2 12.6 NA 0.7 NA NA NA 30.0 72.5 161.1 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 0.0 1.7 0.0 0.0 0.0 39.5 81.1 177.6 1995 0.2 27.0 3.7 3.6 0.1 0.2 (s) 7.6 0.0 1.6 0.0 0.0 43.8 80.2 184.8 2000 1.2 26.7 4.4 6.2 0.1 0.2 (s) 10.8 0.0 1.1 0.0 0.0 43.8 80.2 184.8 2005 (s) 25.8 4.4 2.0 0.1 0.2 (s) 10.8 0.0 0.1 1.0 0.0 0.0 7.7 0.0 0.0 0.7 3.7 107.1 11.4 42.4 2000 0.6 25.1 8.9 2.6 0.1 0.2 (s) 11.8 0.0 0.7 0.0 0.0 7.5 113.6 146.8 2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.7 0.0 0.0 75.5 113.6 146.8 2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.7 0.0 0.0 75.5 113.6 146.8 2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.0 0.7 0.0 0.0 75.5 113.6 146.8 2007 (s) 25.8 5.7 3.1 (s) 0.2 0.0 9.1 0.0 0.0 0.7 0.0 0.0 75.5 113.6 146.8 2007 (s) 25.8 5.7 3.1 (s) 0.2 0.0 9.1 0.0 0.0 0.7 0.0 0.0 76.9 112.5 113.6 145.3 2010 0.0 27.5 6.6 2.5 (s) 0.2 0.0 9.1 0.0 0.9 0.0 0.0 74.8 108.8 135.1 2010 0.0 27.5 6.6 0.5 2.1 (s) 0.2 0.0 9.3 0.0 0.9 0.0 0.0 (s) 78.4 116.5 113.6 145.3 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 9.9 0.0 0.9 0.0 (s) 77.4 110.5 113.6 132.1 2012 0.0 25.6 7.0 2.6 (s) 0.2 0.0 8.8 0.0 0.0 0.9 0.0 (s) 77.1 110.5 113.6 132.1 2014 0.0 25.6 7.0 2.6 (s) 0.2 0.0 6.3 0.0 0.9 0.0 0.0 (s) 77.1 110.5 113.6 113.5 2014 0.0 25.6 7.0 2.6 (s) 0.2 0.0 6.3 0.0 0.9 0.0 0.0 (s) 77.1 110.5 113.6 113.2 2016 0.0 24.2 4.9 1.7 (s) 6.6 0.0 0.0 13.2 0.0 0.0 0.0 18.0 0.0 18.0 0.0 18.0 0.1 110.5 113.8 2014 0.0 25.6 7.0 2.6 (s) 0.2 0.0 6.3 0.0 0.9 0.0 0.0 (s) 77.1 110.5 113.6 113.2 2016 0.0 24.2 4.9 1.7 (s) 6.6 0.0 11.2 0.0 0.3 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.0 0.0 18.	4000		40.4	4.5	0.0	4.7	47	(-)			0.4	N/A		0.0	07.0	B 40.4	B.co.c
1970 1.3 37.4 1.5 6.2 2.4 2.1 (s) 12.2 NA 0.2 NA NA 17.6 68.6 136.0 1975 0.3 34.4 3.2 4.9 1.4 2.4 (s) 11.8 NA 0.2 NA NA 0.2 NA NA 22.2 68.9 145.2 1985 4.3 29.5 3.7 3.2 1.0 1.4 (s) 9.3 NA 0.4 NA 0.4 NA NA 24.5 68.1 18.5 2.2 1985 2.3 26.8 5.3 2.6 0.1 1.3 3.2 12.6 NA 0.7 NA NA NA 0.4 NA NA 0.4 NA NA 0.5 NA NA 0.4 NA NA 0.5 NA N	1960	2.8 1.1	33.0	1.5	3.3	1.7	1.7	(S) (S)	7.6 7.8	NA NA	0.4	NA NA	NA NA	8.2 11.7		R 23.1	R 53.5 R 77.1
1980 4.3 29.5 3.7 3.2 1.0 1.4 (s) 9.3 NA 0.4 NA NA 24.5 68.1 H52.2 1985 2.3 26.8 5.3 2.6 0.1 1.3 3.2 12.6 NA 0.7 NA NA NA 24.5 68.1 H52.2 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 0.0 1.7 0.0 0.0 39.5 81.1 R77.6 1995 0.2 27.0 3.7 3.6 0.1 0.2 (s) 7.6 0.0 1.6 0.0 0.0 43.8 80.2 R3.8 80.2 R3.	1970	1.3	37.4	1.5	6.2	2.4	2.1	(s)	12.2	NA	0.2	NA	NA	17.6	68.6	R 36.0	T 10// 6
1985 2.3 26.8 5.3 2.6 0.1 1.3 3.2 12.6 NA 0.7 NA NA 30.0 72.5 R61.1 1990 2.1 25.0 4.3 3.4 0.1 1.4 3.8 12.9 0.0 1.7 0.0 0.0 39.5 81.1 R77.6 1995 0.2 27.0 3.7 3.6 0.1 0.2 (s) 7.6 0.0 1.6 0.0 1.6 0.0 0.0 43.8 80.2 R84.8 2000 1.2 26.7 4.4 6.2 0.1 0.2 (s) 10.8 0.0 1.1 0.0 0.0 0.0 67.3 107.1 R136.9 2005 (s) 25.8 4.4 2.0 0.1 0.2 (s) 10.8 0.0 1.1 0.0 0.0 0.0 73.7 107.1 R136.9 2006 0.6 25.1 8.9 2.6 0.1 0.2 (s) 11.8 0.0 0.7 0.0 0.0 75.5 113.6 R146.8 2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.0 0.7 0.0 0.0 75.5 113.6 R146.8 2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.0 0.0 0.7 0.0 0.0 75.5 113.6 R146.8 2008 0.0 25.8 5.7 3.1 (s) 0.2 0.0 10.0 0.0 9.1 0.0 0.0 7.7 0.0 0.0 74.8 10.8 R155.1 2000 0.0 24.9 5.6 2.2 (s) 0.2 0.0 8.1 0.0 0.0 8.1 0.0 0.9 0.0 0.0 74.8 10.8 R135.1 2010 0.0 27.5 6.6 2.5 (s) 0.2 0.0 9.9 0.0 0.9 0.0 0.0 (s) 78.4 116.2 R145.3 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 8.8 0.0 0.9 0.0 (s) 75.9 112.3 R136.2 2011 0.0 25.7 4.2 2.2 (s) 0.2 0.0 8.8 0.0 0.8 0.0 0.0 (s) 77.1 110.5 R135.5 2014 0.0 25.7 4.2 2.2 (s) 0.2 0.0 6.7 0.0 0.9 0.0 (s) 77.1 110.5 R135.5 2014 0.0 25.9 4.3 1.7 (s) 5.2 0.0 6.3 0.0 0.9 0.0 0.0 (s) 77.1 110.5 R135.5 2015 0.0 25.9 4.3 1.7 (s) 6.6 0.0 13.2 0.0 0.9 0.0 0.0 (s) 77.1 110.5 R133.5 2015 0.0 25.9 4.3 1.7 (s) 6.6 0.0 13.2 0.0 0.0 0.0 0.0 R(s) 77.1 110.5 R135.5 2016 0.0 24.9 1.7 (s) 6.6 0.0 13.2 0.0 0.0 0.9 0.0 0.0 (s) 77.6 R13.6 R136.5 2016 0.0 24.2 4.9 1.7 (s) 6.6 0.0 13.2 0.0 0.0 0.0 0.0 R(s) 77.1 110.5 R135.5 2016 0.0 25.9 4.3 1.7 (s) 6.6 0.0 13.2 0.0 0.0 0.0 0.0 R(s) 77.1 110.5 R135.5 2016 0.0 25.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.0 0.0 0.0 R(s) 77.6 R13.6 R131.8 2019 0.0 27.4 4.9 2.2 (s) 5.6 6.0 1.1 2.8 0.0 0.0 0.0 0.0 R(s) 77.6 R13.6 R131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 R(s) 77.6 R13.8 2019 0.0 25.6 R131.8 2019 0.0 25.6 R131	1975 1980			3.2 3.7	4.9 3.2			(S) (S)			0.2 0.4			22.2 24.5	68.9 68.1	H 52.2	R 114.2 R 120.3
1995 0.2 27.0 3.7 3.6 0.1 0.2 (s) 7.6 0.0 1.6 0.0 0.0 43.8 80.2   484.8 200	1985	2.3	26.8	5.3	2.6	0.1	1.3	3.2	12.6	NA	0.7	NA	NA	30.0	72.5	R 61 1	R 133.5
2000 1.2 26.7 4.4 6.2 0.1 0.2 (s) 10.8 0.0 1.1 0.0 0.0 67.3 107.1 H136.9 2005 (s) 25.8 4.4 2.0 0.1 0.2 0.1 6.8 0.0 0.7 0.0 0.0 73.7 107.1 H136.9 2006 0.6 25.1 8.9 2.6 0.1 0.2 (s) 11.8 0.0 0.7 0.0 0.0 75.5 113.6 H146.8 2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.0 0.0 75.5 113.6 H146.8 2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.0 0.0 0.0 76.0 112.8 H159.0 2008 0.0 25.8 5.7 3.1 (s) 0.2 0.0 9.1 0.0 0.0 0.0 0.0 76.0 112.8 H159.0 2009 0.0 24.9 5.6 2.2 (s) 0.2 0.0 9.1 0.0 0.0 0.0 0.0 0.0 76.0 112.8 H159.1 2009 0.0 24.9 5.6 2.2 (s) 0.2 0.0 8.1 0.0 0.9 0.0 0.9 0.0 0.0 74.8 108.8 H135.1 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 9.3 0.0 0.9 0.0 (s) 75.9 112.3 H145.3 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 9.9 0.0 0.9 0.0 (s) 75.9 112.3 H136.2 2012 0.0 21.9 6.5 2.1 (s) 0.2 0.0 9.9 0.0 0.0 0.9 0.0 (s) 75.9 112.3 H136.2 2013 0.0 25.7 4.2 2.2 (s) 0.2 0.0 6.8 0.0 0.0 0.9 0.0 (s) 77.1 110.5 H133.5 2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.3 0.0 0.9 0.0 0.9 0.0 (s) 77.1 110.5 H133.5 2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.3 0.0 0.9 0.0 0.9 0.0 (s) 78.2 113.6 H139.3 2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 H136.5 2016 0.0 27.4 4.9 2.2 (s) 5.6 6.0 0.1 12.8 0.0 0.3 0.0 H(s) 77.6 H13.6 H131.2 2017 0.0 23.6 4.8 2.0 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 77.6 H13.6 H131.2 2018 0.0 27.4 4.9 2.2 (s) 5.5 6.0 1.1 12.8 0.0 0.3 0.0 H(s) 78.7 H17.0 H12.9 5	1990 1995	2.1 0.2	25.0 27.0	4.3 3.7	3.4 3.6		1.4 0.2	3.8	12.9 7.6		1.7 1.6			39.5 43.8		<sup>n</sup> 77.6 R 84.8	R 158.7 R 165.0
2006	2000	1.2	26.7	4.4	6.2	0.1	0.2	(s)	10.8	0.0	1.1	0.0	0.0	67.3	107.1	R 136.9	n 244 0
2007 (s) 24.0 7.3 2.4 (s) 0.2 0.0 10.0 0.0 0.7 0.0 0.0 78.0 112.8 1159.0 2008 0.0 25.8 5.7 3.1 (s) 0.2 0.0 9.1 0.0 0.0 0.8 0.0 0.0 76.9 112.5 115.5 1200 0.0 24.9 5.6 2.2 (s) 0.2 0.0 8.1 0.0 0.9 0.0 0.0 74.8 108.8 135.1 2010 0.0 27.5 6.6 2.5 (s) 0.2 0.0 9.3 0.0 0.9 0.0 (s) 78.4 116.2 1145.3 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 9.3 0.0 0.9 0.0 (s) 78.4 116.2 1145.3 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 9.9 0.0 0.9 0.0 (s) 78.9 112.3 112.3 112.3 2012 0.0 21.9 6.5 2.1 (s) 0.2 0.0 8.8 0.0 0.9 0.0 (s) 78.9 112.3 112.3 112.3 2013 0.0 25.7 4.2 2.2 (s) 0.2 0.0 8.8 0.0 0.8 0.0 (s) 74.4 105.8 1132.1 2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.7 0.0 0.9 0.0 (s) 78.2 113.6 113.5 2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.3 0.0 0.9 0.0 (s) 78.2 113.6 113.6 1139.3 2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 1136.5 2016 0.0 24.2 4.9 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 1136.5 2016 0.0 24.2 4.9 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 1136.5 2016 0.0 25.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 12.2 0.0 0.3 0.0 11.2 2016 0.0 25.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 11.2 20.0 0.0 1.2 20.0 0.0 1.2 2018 0.0 27.4 4.9 2.2 (s) 5.6 6.0 1.1 12.8 0.0 0.3 0.0 18 (s) 78.7 113.6 113.6 1131.2 2018 0.0 27.4 4.9 2.2 (s) 5.5 6.6 0.1 12.8 0.0 0.3 0.0 12.9 5.0 18 (s) 78.7 117.0 12.9 5.0 1							0.2	0.1			0.7			73.7 75.5		H 142.4 R 146.9	R 249.5 R 260.3
2008 0.0 25.8 5.7 3.1 (s) 0.2 0.0 9.1 0.0 0.8 0.0 0.0 76.9 112.5 H152.1 2009 0.0 24.9 5.6 2.2 (s) 0.2 0.0 8.1 0.0 0.9 0.0 0.9 0.0 0.0 74.8 108.8 H155.1 2010 0.0 27.5 6.6 2.5 (s) 0.2 0.0 9.3 0.0 0.9 0.0 0.9 0.0 (s) 78.4 116.2 H153.3 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 9.9 0.0 0.9 0.0 (s) 78.4 116.2 H153.3 H136.2 2012 0.0 21.9 6.5 2.1 (s) 0.2 0.0 8.8 0.0 0.8 0.0 (s) 74.4 105.8 H132.1 2013 0.0 25.7 4.2 2.2 (s) 0.2 0.0 8.8 0.0 0.8 0.0 (s) 74.4 105.8 H132.1 2014 0.0 25.7 4.2 2.2 (s) 0.2 0.0 6.7 0.0 0.9 0.0 (s) 77.1 110.5 H133.5 2014 0.0 25.9 4.3 1.7 (s) 6.5 0.2 0.0 6.3 0.0 0.9 0.0 (s) 77.1 110.5 H139.3 2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 H136.5 2016 0.0 24.2 4.9 1.7 (s) 6.6 0.0 13.2 0.0 0.3 0.0 (s) 80.0 117.4 H136.5 2017 0.0 23.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 H(s) 77.6 H13.6 H131.2 2018 0.0 27.4 4.9 2.2 (s) 5.6 6.0 1 12.8 0.0 0.3 0.0 H(s) 80.1 H12.0 6 H131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 80.1 H12.0 6 H131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 80.1 H12.0 6 H131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 80.1 H12.0 6 H131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 78.7 H17.0 H129.5	2007		24.0	7.3	2.4		0.2	0.0		0.0	0.7			78.0	112.8	R 159.0	n 271 8
2010 0.0 27.5 6.6 2.5 (s) 0.2 0.0 9.3 0.0 0.9 0.0 (s) 78.4 116.2 H145.3 2011 0.0 25.6 7.0 2.6 (s) 0.2 0.0 9.9 0.0 0.9 0.0 (s) 75.9 112.3 H145.3 2012 0.0 21.9 6.5 2.1 (s) 0.2 0.0 8.8 0.0 0.8 0.0 (s) 74.4 105.8 H132.1 2013 0.0 25.7 4.2 2.2 (s) 0.2 0.0 6.7 0.0 0.9 0.0 (s) 77.1 110.5 H133.5 2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.7 0.0 0.9 0.0 (s) 78.2 113.6 H139.3 2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 78.2 113.6 H139.3 2016 0.0 24.2 4.9 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 H136.5 2017 0.0 23.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 (s) 80.6 118.4 H137.2 2018 0.0 27.4 4.9 2.2 (s) 5.6 0.1 12.8 0.0 0.3 0.0 H(s) 80.1 H12.6 H131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 80.1 H12.0 6 H131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 80.1 H12.0 6 H131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 78.7 H17.0 H129.5	2008	0.0		5.7	3.1	(s)	0.2	0.0	9.1	0.0	0.8			76.9	112.5	R 152.1	R 264.6 R 243.9
2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.3 0.0 0.9 0.0 (s) 78.2 113.6 1139.3 (2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 136.5 (2016 0.0 24.2 4.9 1.7 (s) 6.6 0.0 13.2 0.0 0.3 0.0 (s) 80.6 118.4 137.2 (2017 0.0 23.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 16 (s) 77.6 113.6 131.2 (2018 0.0 27.4 4.9 2.2 (s) 5.6 0.1 12.8 0.0 0.3 0.0 16 (s) 77.6 113.6 131.8 (2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 16 (s) 78.7 117.0 129.5	2009		24.9 27.5	5.6 6.6	2.2		0.2		9.3		0.9			74.8 78.4	108.8	R 145.3	R 261 5
2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.3 0.0 0.9 0.0 (s) 78.2 113.6 1139.3 (2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 136.5 (2016 0.0 24.2 4.9 1.7 (s) 6.6 0.0 13.2 0.0 0.3 0.0 (s) 80.6 118.4 137.2 (2017 0.0 23.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 16 (s) 77.6 113.6 131.2 (2018 0.0 27.4 4.9 2.2 (s) 5.6 0.1 12.8 0.0 0.3 0.0 16 (s) 77.6 113.6 131.8 (2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 16 (s) 78.7 117.0 129.5	2011	0.0	25.6	7.0	2.6	(s)	0.2	0.0	9.9	0.0	0.9	0.0	(s)	75.9	112.3	R 136.2	R 248 5
2014 0.0 28.1 3.9 2.2 (s) 0.2 0.0 6.3 0.0 0.9 0.0 (s) 78.2 113.6 1139.3 (2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 136.5 (2016 0.0 24.2 4.9 1.7 (s) 6.6 0.0 13.2 0.0 0.3 0.0 (s) 80.6 118.4 137.2 (2017 0.0 23.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 16 (s) 77.6 113.6 131.2 (2018 0.0 27.4 4.9 2.2 (s) 5.6 0.1 12.8 0.0 0.3 0.0 16 (s) 77.6 113.6 131.8 (2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 16 (s) 78.7 117.0 129.5	2012		21.9	6.5	2.1		0.2			0.0	0.8	0.0		74.4	105.8	H 132.1	R 237.9 R 244.0
2015 0.0 25.9 4.3 1.7 (s) 5.2 0.0 11.2 0.0 0.3 0.0 (s) 80.0 117.4 136.5 20.6 0.0 13.2 0.0 0.3 0.0 (s) 80.0 117.4 136.5 20.6 20.6 0.0 13.2 0.0 0.3 0.0 (s) 80.6 118.4 136.5 20.7 20.7 0.0 23.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 12.2 0.0 0.3 0.0 12.2 0.0 0.3 0.0 12.2 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.1 0.0 0.3 0.0 12.2 20.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.3 0.0 12.2 20.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2014	0.0	28.1	3.9	2.2		0.2	0.0	6.3	0.0	0.9	0.0	(s)	78.2	113.6		R 252 9
2017 0.0 23.6 4.8 2.0 (s) 5.3 0.0 12.2 0.0 0.3 0.0 H(s) 77.6 H113.6 H131.2 2018 0.0 27.4 4.9 2.2 (s) 5.6 0.1 12.8 0.0 0.3 0.0 H(s) 77.6 H10.6 H131.2 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 H(s) 78.7 H17.0 H129.5				4.3	1.7		5.2				0.3		(-)	80.0	117.4	D 136 5	R 253.9 R 255.6
2018 0.0 27.4 4.9 2.2 (s) 5.6 0.1 12.8 0.0 0.3 0.0 P(s) 80.1 P.120.6 P.131.8 2019 0.0 25.6 4.6 2.1 (s) 5.7 0.0 12.4 0.0 0.3 0.0 P(s) 78.7 P.117.0 P.129.5 2020 0.0 23.6 3.7 2.2 (s) 5.7 0.1 11.7 0.0 0.3 0.0 P(s) 72.7 P.108.3 P.115.7	2016				2.0		5.3		13.2		0.3	0.0	B /a(	80.6 77.6	R 113 6	R 131.2	R 244 9
2019 U.U 25.6 4.6 2.1 (s) 5.7 U.U 12.4 U.U 0.3 U.U <sup>n</sup> (s) 78.7 <sup>n</sup> 117.0 <sup>n</sup> 129.5	2018	0.0	27.4	4.9	2.2	(s)	5.6	0.1	12.8	0.0	0.3	0.0	H (c)	80.1	n 120 6	R 131.8	R 252.4 R 246.5
	2019 2020	0.0 0.0	25.6 23.6	4.6 3.7	2.1	(s) (s)	5.7 5.7	0.0 0.1	12.4 11.7	0.0 0.0	0.3 0.3	0.0 0.0	R (s)	78.7 72.7	H 117.0 R 108.3	H 129.5 R 115.7	H 246.5 R 224.0
2021 0.0 26.5 4.7 2.7 (s) 5.8 (s) 13.3 0.0 0.3 0.0 "(s) 74.5 "114.6 "121.9	2021	0.0	26.5	4.7	2.2 2.7	(s)	5.8	(s)	13.3	0.0	0.3	0.0	R (s)	74.5	H 114.6	H 121.9	R 236.6
2022 0.0 26.5 4.8 2.3 (s) 9.6 (s) 16.8 0.0 0.3 0.0 0.1 76.4 120.1 124.3	2022	0.0	26.5	4.8	2.3	(s)	9.6	(s)	16.8	0.0	0.3	0.0	0.1	76.4	120.1	124.3	244.4

a Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Alabama

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960 1965	7,904 8,774	109 132	2,511 1,962	708 1,020	382 372	2,014 945	3,765	9,380 9,615	26 25				NA	8,966			
1965	8,774	132	1,962	1,020	372	945	5,317	9,615	25				NA				
1970	11,177	171	2,833	1,696	204	1,611	6,026	12,370	25				NA				
1975 1980	9,288 7,221	156 171	4,475 3,356	1,846 1,857	198 104	5,814 3,787	6,805 7,619	19,138 16,724	25 24				NA NA				
1985	5,476	138	2,597	1,031	507	96	7,019	11,415	24				NA NA				
1990	5.525	156	4,580	901	443	444	6,919	13.287	Ö				0	27,618			
1995	5,543	218	4,397	1,670	674	504	7,472	14,716	0				0				
2000	4,415	216	2,938	1,548	443	1,338	7,445	13,712	0				0				
2005 2006	3,570	166 168	6,488 5,571	794 957	1,207	747 766	10,447 10,178	19,682	0				0				
2006	3,358 3,189	168	4,899	1 /50	1,295 1,122	814	9,031	18,767 17,326	0				0				
2008	3,141	160	5.505	1,459 722	1,014	1,034	8,875	17,149	ő				ő	34,990			
2009	2,316	148	4,173	532	994	320	6,004	12,022	Ō				Ō	29,437			
2010	2.685	162	3,852	550	658	711	6,053	11,823	0				0				
2011	2,519	171	4,114	522	637	1,065	6,181	12,520	0				0	33,735			
2012 2013	2,674 2,834	191 199	5,229 4,005	596 525	487 508	775 305	6,084 5,291	13,170 10,634	0				0				
2013	3,234	204	3,447	471	520	349	5,291	9,882	0				0				
2015	2,554	204	3,781	433	844	550	5 190	10 798	ŏ				(s)	33,499			
2016	2.358	209	3.964	401	855	955	R 5 273	B 44 447	Ō				(s)	32,535			
2017	2,263	211	3,557	463 403	861	739	R 5,498 R 5,124	R 11,118 R 10,825	0				(s)	33,317			
2018	2,174	232	3,965	403	885	448	H 5,124	H 10,825	0					33,717			
2019 2020	1,781	230	3,504 3,810	498 510	876 882	572 405	R 5,006 R 5,149	R 10,456 R 10,756	0				]	32,603 30,757			
2020 2021	1,325 1,444	221 244	3,810	728	869	596	R 5,029	R 10,756	0				¦	30,757			
2022	1,221	224	3,757	750	908	611	5,186	11,212	ő				i 1	31,713			
									Trillion Bto	u							
1960	209.9	112.8	14.6	2.7 3.9	2.0	12.7	23.8	55.7	R <sub>0.1</sub>	23.6	NA	NA	NA	30.6	R 432.7	R 61.7	R 494.3
1965	232.0	136.0	11.4	3.9	2.0	5.9	33.5	56.7	B 0.1	32.1	NA	NA	NA	46.5	R 503.3	_R 91.5	H 594.9
1970 1975	291.4	176.5	16.5	6.2	1.1	10.1	37.9	71.8	HO1	41.9	NA	NA	NA		R 643.2 R 628.2	H 126.1	R 769.3 R 770.8
1975	238.8 187.0	160.0 176.3	26.1 19.6	6.5 6.5	1.0 0.5	36.6 23.8	42.4 47.3	112.6 97.7	R 0.1 R 0.1	46.8 124.3	NA NA	NA NA	NA NA	69.9 91.1	n 628.2	R 126.1 R 142.6 R 193.9	R 870.3
1980 1985	140.4	143.0	15.1	3.5	2.7	23.8	47.3 45.6	67.5	R 0.1	145.6	0.0	NA NA	NA NA		R 676.5 R 579.1	R 167.6	R 746.7
1990	143.3	160.0	26.7	3.1	2.3	2.8	44.1	79.0	0.0	100.9	0.0	0.0	0.0		577.2	R 184.8	R 762.1
1995	144.1	224.7	25.6	5.8	3.5	3.2	47.9	85.9	0.0	187.7	0.0	0.0	0.0	112.1	754.5	R 216 0	R 071 2
2000 2005	116.7	225.2	17.1 37.7	5.3 2.7	2.3	8.4	47.8	80.9	0.0	193.0 169.3	0.0 0.0	(s)	0.0	119.5	735.3 672.9	R 243.0 R 239.1 R 240.7 R 251.4 R 236.2	R 978.3 R 912.0 R 920.1
2005	90.4	171.1	37.7	2.7	6.3	4.7	66.8	118.2	0.0	169.3	0.0	(s)	0.0	123.8	672.9	H 239.1	H 912.0
2006	85.4	172.7	32.3	3.3	6.7	4.8	64.7	111.8	0.0	185.7	0.0	(s)	0.0	123.8	679.4 656.9	R 240.7	P 920.1
2007 2008	81.4 80.7	172.5 164.0	28.3 31.8	4.9 2.4	5.8 5.2	5.1 6.5	57.1 56.1	101.2 102.1	0.0 0.0	178.2 163.3	(s)	(s)	0.0		629.6	R 226.2	R 908.3 R 865.8
2008	59.6	152.1	24.1	1.8	5.1	2.0	37.4	70.3	0.0	129.5	(8)	(5)	0.0		512.0		
2010	68.8	164.1	22.2	2.1	3.3	4.5	37.7	69.8	0.0	143.8	0.0	(s)	0.0	110.4	557.0	R 204.5	R 761.5
2011	65.0	173.5	24.1 22.2 23.7	2.1 2.0	3.3 3.2	4.5 6.7	38.5	74.2	0.0	156.9	0.0	(s)	0.0	115.1	584.6	R 206.5	R 791.1
2012	72.9	193.8	30.2	2.3	2.5	4.9	37.9	77.7	0.0	160.6	(s)	(s)	0.0		620.2	R 204.5	R 824.8
2013	76.4	202.0	23.1	2.0	2.6	1.9	33.0	62.6	0.0	174.6	(s)	(s)	0.0		631.3	R 204.5 R 206.5 R 204.5 R 200.0 R 210.4	R 831.3
2014	87.3	207.9	19.9	1.8	2.6	2.2	31.8	58.3	0.0	164.5 157.9	(s)	(s)	0.0		636.3	D 210.4	R 846.7 R 809.9
2015 2016	69.5 64.6	209.6 214.1	21.8 22.8	1.7 1.5	4.3 4.3	3.5	32.4 33.4	63.5	0.0 0.0	157.9 156.9	(S)	(S)	(s) (s)	114.3 111.0	614.8	R 195.1 R 188.9	R 809.9
2017	62.8	216.7	20.5	1.8	4.4	3.5 6.0 4.6	R 34 5	68.1 R 65.8	0.0	162.3	(8)	(5)	(8)	113.7	614.8 R 621.3	R 192 2	R 803.7 R 813.6
2018	59.9	238.8	22.8	1.5	4.5	2.8	R 32.2	R 63.8	0.0	162.7	(s)	(s)	(s)	115.0	H 640.3	R 192.2 R 189.2	H 829.5
2019	48.8	236.4	20.2	1.9	4.4	3.6	R 31.3	61.5	0.0	163.2	(s)	(s)	(s)	111.2	R 621.1	H 183.0	H 804.1
2020	36.7	227.3 R 251.9	21.9	2.0 2.8	4.5	2.5 3.7	_ 32.3	<sub>_</sub> 63.2	0.0	158.3	(s)	(s)	(s)	104.9 109.7	590.6	H 167.0	R 757.5
2021 2022	39.5 33.1	H 251.9 230.3	21.4 21.7	2.8 2.9	4.4 4.6	3.7 3.8	R 31.7 32.7	R 64.0 65.6	0.0	164.8 161.0	(s)	(s)	(s)	109.7 108.2	R 630.1 598.3	R 179.5 176.0	R 809.6 774.3
<b>ZUZZ</b>	33.1	230.3	21./	2.9	4.6	3.8	32.7	0.00	0.0	101.0	(S)	(s)	(s)	108.2	598.3	1/6.0	774.3

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

A Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Alabama

						Po	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
1960	136 29	.8	280	2,582 3,090	31	1,126 1,156	396	23,869 28,220	2,278	30,562	0			
1965 1970	29 18	12 20	446 349	3,090 5,353	43 98	1,156 1,799	430 421	28,220 36,408	1,608 1,679	34,993 46,107	0		 	
1975	2	17	249	9.087	87	1,707 2,048	609 486	44 523	7,039 3,506	63,300	Ö			
1980	0	16	248	11,049	46	2,048	486	43,934	3,506	61,318	0			
1985 1990	0	11 15	172 116	10,899 16,110	161 96	3,516 1,899	442 497	42,718 48,498	1,640 2,865	59,548 70,082	0			
1995	ŏ	20	97	18,421	93	3,843	475	54,756	2,603	80,288	(s)			
2000	0	23	83	20,440	40	2,348	507	56,678	2,891	82,986	Ó			
2005 2006	0	15 15	77 118	22,368 22,750	74 80	2,466 2,313	428 417	61,615 62,125	1,022 1,492	88,049 89,293	0			
2007	ő	16	116	22.963	80 55	2.321	430	63.133	1 346	90.365	Ŏ			
2008 2009	0	16	61 45	19,652 18,784	122 83	2,169 1,744	399 359	61,459 61,576	1,128 806	84,991 83,397	0			
2009	0	19 22	45 74	18,784 20,300	83 36	1,744 2,131	359 490	61,576 62,563	806 928	83,397 86,523	0			
2011	ő	23 26	70 66	21,417	38 37	2,395	474 432	60,703	1,059 1,048	86,157	ő			
2012	0	26	66	20.648	37	2,289	432	60,122	1,048	84,642	0			
2013 2014	0	22 19	51 56 62	20,312 20,567	45 45 62	2,016 2,051	451 466	60,669 60,640	800 880	84,343 84,704	0			
2015	0	22	62	21,988	62	1,958	519	62,002	538	87,130	0			
2016	Ō	21 21	62 63	24 484	78	1.841	451 466 519 R 525 R 473	63,600	945	R 91.535	Ō			
2017 2018	0	21 25	63 68	23,938 22,182	5 21	2,034 2,018	H 473	62,909 62,509	1,019 688	R 90,440 _ 87,913	0			
2019	0	25 24	71	22,162	42	2,016	427 R 423	64,639	565	R 90.612	0			
2020	Ö	26 25	63 73	22,062	34 39	1,548	R 410 R 453	65,439	408	_H 89,964	Ō			
2021 2022	0	25 30	73 76	R 23,403 22,604	39 48	1,696 1,699	<sup>H</sup> 453 467	74,260 73,415	771 790	R 101,114 99,469	0			
LULL			70	22,004	-10	1,000		Ilion Btu	700	00,100				
1960	3.4	7.9	1.4	15.0	0.1	6.1	2.4	125.4	14.3	164.7	0.0	176.0	0.0	176.0
1965	0.7	12.4	2.3	18.0	0.2	6.2	2.6	148.2	10.1	187.6	0.0	200.7	0.0	200.7
1970 1975	0.4	20.5 17.3	1.8 1.3	31.2 52.9	0.4 0.3	9.9 9.4	2.6 2.6 3.7	191.3 233.9	10.6 44.3	247.6 345.8	0.0 0.0	268.5 363.1	0.0 0.0	268.5 363.1
1975	(s) 0.0	17.0	1.3	64.4	0.3	11.3	2.9	230.8	22.0	332.9	0.0	349.9	0.0	349.9
1985	0.0	11.5	0.9	63.5	0.6	19.7	2.9 2.7	224.4	10.3	322.1	0.0	334.8	0.0	334.8
1990 1995	0.0 0.0	15.1 20.7	0.6 0.5	93.8 107.2	0.4 0.4	10.6 21.8	3.0 2.9	254.8 285.0	18.0 16.4	381.1 434.0	0.0 (s)	397.8 454.7	0.0 (s)	397.8 454.7
2000	0.0	23.7	0.4	118.9	0.4	13.3	3.1	294.8	18.2	448.9	0.0	472.5	0.0	472.5
2005	0.0	15.6	0.4	130.1	0.3	14.0	2.6	319.9	6.4	473.7	0.0	489.5	0.0	489.5
2006 2007	0.0	15.4	0.6 0.6	132.0	0.3 0.2	13.1	2.5 2.6	322.1	9.4	480.1 482.5	0.0 0.0	496.1 499.5	0.0 0.0	496.1 499.5
2008	0.0 0.0	16.2 16.9	0.3	132.8 113.6	0.5	13.2 12.3	2.4	324.6 313.8	8.5 7.1	482.5 450.0	0.0	467.6	0.0	467.6
2009	0.0	19.4	0.2	108.5	0.3	9.9	2.2 3.0	313.4	5.1	439.6	0.0	459.1	0.0	459.1
2010 2011	0.0 0.0	22.6 23.7	0.4 0.4	117.2 123.6	0.1 0.1	12.1 13.6	3.0 2.9	317.0 307.3	5.8 6.7	455.6 454.5	0.0 0.0	478.2 478.2	0.0 0.0	478.2 478.2
2012	0.0	26.0	0.3	119.1	0.1	13.0	2.6	304.3	6.6	446.1	0.0	472.0	0.0	472 0
2013	0.0	26.0 22.7	0.3	117.1	0.2	11.4	2.6 2.7	307.0	6.6 5.0	446.1 443.7	0.0	466.4	0.0	466.4
2014 2015	0.0 0.0	19.6 22.4	0.3 0.3	118.5 126.7	0.2 0.2	11.6 11.1	2.8 3.1	306.8 313.5	5.5 3.4	445.7 458.4	0.0 0.0	465.3 480.8	0.0 0.0	465.3 480.8
2016	0.0	22.0	0.3	141.0	0.2	10.4	3.2 2.9	321.5	5.9	482.6	0.0	504.6	0.0	504.6
2017	0.0	21.9	0.3	137.8	(s)	11.5	2.9	317.9	5.9 6.4	476.8	0.0	498.7	0.0	498.7
2018 2019	0.0	26.2 24.6	0.3 0.4	127.7 130.9	0.1	11.4	2.6	315.9	4.3 3.6	462.4 476.2	0.0 0.0	488.6 500.9	0.0	488.6 500.9
2020	0.0 0.0	26.3	0.4	130.9	0.2 0.1	12.1 8.8	2.5 2.5	326.6 330.6	2.6	471.9	0.0	H 498.2	0.0 0.0	H 498.2
2021 2022	0.0 0.0	25.9 30.7	0.4 0.4	R 134.9	0.2 0.2	9.6	2.6 2.5 R 2.7 2.8	375.0	4.8 5.0	R 529.9 521.0	0.0	R 555.7 551.6	0.0 0.0	R 555.7 551.6
2022	0.0	30.7	0.4	130.3	0.2	9.6	2.8	370.7	5.0	521.0	0.0	551.6	0.0	551.6

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Alabama

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	7,264	9	(s) 0	0	0	(s) 0	0	6,213		0	NA	NA	0	
1965 1970	7,264 12,572 16,331	6	Ó	0	0	0	0	7,078 7,607		0	NA	NA	0	
1970 1975	16,331 17,301	15 6	26 514	448 0	0 99	474 613	0 2,722	7,607 12,188		0	NA NA	NA NA	0	
1980	19,593	1	131 88	0	0	131	23,497	9,385		0	NA NA	NA	0	
1985	21,545	1	88	0	0	88	14,313	6,862		0	0	0	0	
1990	22,084 28,839	5 9	133 181 469 272	0	0	133	12,052 20,752	10,367 9,502		0	0	0	0	 
1995 2000	35,636	42	469	0	0	181 469	31,369	5,818		0	0	0	0	
2005	36.997	42 105	272	ŏ	ŏ	272	31.694	10 145		ŏ	ŏ	ŏ	ŏ	
2006 2007	37,168 37,233	146 176	177 148	0	0	177 148	31,911 34,325	7,252 4,136		0	0	0	0	
2007	37,233 35,845	1/6 164	148	0	0	148 215	34,325 38,993	4,136 6,136		0	0	0	0	
2008	27 583	227	215 177 215	0	0	177	39,716	12 535		0	0	0	0	
2009 2010	27,583 30,985	227 282	215	ŏ	ŏ	177 215	37,941	12,535 8,704		ŏ	ŏ	ŏ	ŏ	
2011	28.151	343	187	0	0	187	39,356	8.884		0	0	0	0	
2012	23,020	401 334	141 109	0	0	141	40,841	7,435 12,899		0	0	0	0	
2013 2014	24,400 23,901	346 346	177	0	0	109 177	40,816 41,244	9,467		0	0	0	0	
2015	21,025	397	126	Ö	Ö	126	41,951	9,862		Ŏ	Ŏ	Ö	Ö	
2016	17.448	413	63	0	0	63 56	39.902	6,985		0	31	0	0	
2017	16,231	380	56	0	0	56	42,652	9,237		0	181	0	0	
2018 2019	16,235 14,245	431 419	63 56 138 29 13 37	0	0	138 29	39,463 43,657	11,143 11,405		0	357 385	0	0	
2020	11,896	396	13	ŏ	ő	13	43,551	13.349		ŏ	369	ő	ő	
2020 2021	14,588	390	37	0	0	13 37	46,036	11,521		0	494	0	0	
2022	14,635	454	73	0	0	73	42,314 Trillion Btu	10,188		0	895	0	0	
1060	175.0	9.7	(a)	0.0	0.0		0.0	R 21.2	0.0	0.0	NA	NA	0.0	B one o
1960 1965	175.3 298.0	5.8	0.0	0.0	0.0	(s) 0.0	0.0	R 24.2	0.0	0.0	NA NA	NA NA	0.0	R 206.2 R 327.9
1970	380.7	15.9 6.2 1.6	(s) 0.0 0.2 3.0 0.8	2.7	0.0	2.9 3.6 0.8	0.0	R 24.2 R 26.0	0.0	0.0	NA	NA	0.0 0.0 0.0	R 425.5 R 482.1 R 759.2
1975	400.7	6.2	3.0	0.0	0.6	3.6	30.0	H 41 6	0.0	0.0	NA	NA	0.0 0.0	H 482.1
1980 1985	468.5 519.5	1.6 1.2	0.8 0.5	0.0 0.0	0.0 0.0	0.8 0.5	256.3 152.0	R 32.0 R 23.4	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0	0.0	
1990	536.6	5.7	0.8	0.0	0.0	0.8	127.5	R 35.4	26.0	0.0	0.0	0.0	0.0	R 732.0
1990 1995	536.6 684.0	5.7 9.0	0.8 1.1	0.0	0.0 0.0	1.1	218.0	R 35.4 R 32.4 R 19.8	26.0 20.6	0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 732.0 R 965.1 R 1,182.5 R 1,277.6 R 1,312.8
2000	786.2	43.4	2.7 1.6	0.0	0.0	2.7	327.1	H 19.8	3.3	0.0	0.0	0.0	0.0	H 1,182.5
2005 2006	799.6 800.6	107.6 149.7	1.0	0.0 0.0	0.0 0.0	1.6 1.0	330.8 333.0	R 34.6 R 24.7	3.4 3.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 1,277.6
2007	807.0	181.5	0.9	0.0	0.0	0.9	360.0	K 1 / 1	3.7	0.0	0.0	0.0	0.0	R 1,367.1
2007 2008	807.0 762.1	181.5 168.9	0.9 1.2	0.0	0.0	1.2	407.6	R 20.9	3.7 3.6	0.0	0.0	0.0	0.0 0.0	R 1,364.3
2009 2010	571.4	232.7 287.4	1.0 1.2	0.0 0.0	0.0 0.0	1.0 1.2	415.4 396.6	R 42.8 R 29.7	4.9 5.2	0.0	0.0 0.0	0.0 0.0	0.0 0.0	H 1,268.1
2010	649.9 586.1	287.4 349.4	1.2	0.0	0.0	1.2	411.8	R 30.3	5.2 4.6	0.0 0.0	0.0	0.0	0.0	11,370.0 R 1 383 3
2012	474.1	407.7	0.8	0.0	0.0	0.8	428.0	R 25.4 R 44.0	3.9	0.0	0.0	0.0	0.0	H 1,312.8 R 1,366.7 R 1,364.3 R 1,268.1 R 1,370.0 R 1,383.3 R 1,303.7 R 1,312.6 R 1,217.7 R 1,191.3 R 1,216.5 R 1,216.5
2013 2014	474.1 488.6	339.8	0.6	0.0	0.0	0.6	426.5	R 44.0	4.1	0.0	0.0	0.0	0.0	R 1,303.7
2014	488.6	355.1 410.1	1.0 0.7	0.0	0.0	1.0 0.7	431.4	R 32.3 R 33.6 R 23.8 R 31.5 R 38.0	5.0	0.0	0.0	0.0	0.0 0.0	H 1,313.5
2015 2016	424.8 345.6	410.1 495.6	0.7	0.0 0.0	0.0 0.0	0.7	438.7 417.3	R 23 8	4.5 4.8	0.0 0.0	0.0 R 0.1	0.0 0.0	0.0	11,312.6 R 1 217 7
2016	316.1	425.6 392.0	0.4	0.0	0.0	0.4	446.1	R 31.5	4.7	0.0	R 0.1 R 0.6	0.0	0.0	R 1.191.3
2018	317.2	443.2	0.8	0.0	0.0	0.8	412.6	R 38.0	3.4	0.0	H12	0.0	0.0	R 1,216.5
2019 2020	268.4 219.9	430.7 408.6	0.2 0.1	0.0	0.0	0.2	455.9	R 38.9 R 45.5	0.5 0.5	0.0	R 1.3 R 1.3	0.0	0.0	R 1,195.9 R 1,130.9
2020 2021	219.9 270.3	408.6 402.4	U.1	0.0 0.0	0.0 0.0	0.1 0.2	454.9 R 480.1	R 39.3	0.5 0.5	0.0 0.0	<sup>n</sup> 1.3 R 1.7	0.0 0.0	0.0 0.0	'' 1,130.9 R 1 104 6
2021	264.5	468.4	0.2 0.4	0.0	0.0	0.4	441.3	34.8	0.4	0.0	3.1	0.0	0.0	R 1,194.6 1,212.9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Alaska

						Petroleum								
						retroleum					Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthour	rs.	Thousan	nd barrels
1960	376 525	2	2,636 3,788	46 91	1,972	1,657	711 991	1,176 760	8,197 10,975	0	290 350	0 0	NA NA	NA NA
1965 1970	525 740	64	5,100	151	3,005 6,735	2,450 2,621	881 1,020	760 1,352	10,975 16,979	0	350 363	0	NA	NA
1971	799	68 75	6,357	176	7.573	2.844	1.065	1.353	19,368 20,860	0	363	0	NA	NA
1972 1973	722 751	75 63	6,289 6,462	193 218	8,019 7,393	3,685 3,197	1,154 1,042	1,519 1,509	20,860 19,821	0	346 286	0	NA NA	NA NA
1974 1975	710 868	63 85	6,851 7,090	173	7,470 7,420	3,545	1,080 1,075	1,656	20,775 21,800	Ö	326 357	Ő	NA	NA
1975	868	85	7,090	211	7,420	4.179	1,075	1.824	21,800	0	357	0	NA	NA
1976 1977	778 584	90 116	9,536 10,441	348 409	7,409 7,910	4,697 4,845	1,303 1,724	1,674 2,021	24,967 27,350 28,777	0	383 512	0	NA NA	NA NA
1978	270	145	10.821	488	8.273	4.533	2,345 319	2,317 3,232	28,777	Ö	472 459	ő	NA	NA
1979	265	157	5,808	192	8,506	4,681	319	3,232	22.739	0	459	0	NA	NA
1980 1981	273 792	153 122	6,677 6,546	191 152	9,618 10,877	3,676 4,468	371 245	2,387 1,790	22,919 24,077	0	539 590	0	NA 0	NA NA
1982	792 834	238	6.312	212	11.530	5.089	245 302	3,065	26 511	Ö	561	ő	ő	NA NA
1983 1984	785 815	239 258	7,305 8,013	212	12 252	4,752 5,324	392 508	6,201	31,115 35,494 41,482	0	593 693	,0	0	NA
1984 1985	815 733	258 213	8,013 10,198	272	15,178	5,324 5,638	508 3,072	6,199	35,494	0	693 748	(S)	0	NA NA
1986	733 769	206	7,591	331 268	15,231 16,187	5,638 5,425	7,081	7,013 10,906	47,458	0	809	(s) (s) 0	(s)	NA
1987	274	249	7.106	271	14.850	5.205	3.406	9.701	40.538	0	872	0	`1	NA
1988 1989	276 299	288 322	8,168 11,071	277 278	16,899 18,586	5,319 5,079	713 347	6,590 5,564	37,966 40,926	0	935 873	0	1 (0)	NA NA
1990	784	343	10.548	384	17,367	5.854	426	5,462	40 041	0	975	0	(s) 0	NA
1991	784 802	367	10,548 9,756	384 402	17.116	5.108	426 591	5,462 3,302	36,275	0	896	0	0	NA
1992 1993	792 863	383 378	11,583 12,388	393 238 252	14,720 14,693	5,881 5,976	758 723	4,208 3,595	37,544 37,612	0	918 1,303	0	0	NA NA
1994	796	367	11.357	252	16,080	6.542	721	3,737	38,690	0	1.345	0	1	NA
1995	815	430	12,803	272	16,921	7,148 6,735	721 746	3,780	38,690 41,669	Ô	1,372	Ō	184	NA NA
1996	706 740	448	11,837	241	18,652 21,108	6,735 6,312	906	4,416	42,786	0	1,266	0	210 170	NA NA
1997 1998	1,012	425 435	11,979 11,503	326 320	21.886	6,737	864 828	4,681 4,395	45,270 45,669	0	1,099 1,113	0	100	NA NA
1999 2000	1,019 1,024	423 427	12,164 10,875	266 221	23,612 25,872	6 426	1,068 788	5,016	48,552 48,500	Ö	817 1,002	Ö	113	NA
2000 2001	1,024 989	427	10,875 11,675	221 261	25,872	5,973 6,383	788	4,770 7,032	48,500	0	1,002	0	49 134	NA
2001	1,034	409 419	10,815	318	24,262 25,111	5,923	1,129 1,057	7,032 5,479	50,742 48 702	0	1,346 1,439	0	97	2
2003	790	414	10 004	314	27.355	5.919	1,057 864	5 832	48,702 50,288	Ö	1,439 1,583	Ö	64	2
2004	891 905	406 433	14,059 12,584	209 266	30,954	6,947 6,853	702 708	5,993	58,864 58,670	0	1,498	0	127	2 4 12
2005 2006	905 968	433 374	12,584	200 277	31,940 31,747	6 789	708 713	6,319 6,844	58,670 60,306	0	1,464 1,224	1	0	34
2006 2007	968 889	370	13,936 13,534	209	29,053	6,927	713 734 392	6,844 6,555	60,306 57,012	Ö	1,224 1,291	i	Ö	34 46 40 42 34 116 7
2008	985	342	13.020	334	23.817	6.708	392	5.101	49.373	0	1.172	(s) 7	0	40
2009 2010	968 971	342 333	14,466 13,761	411 357	18,746 19,850	6,708 6,877	549 343	5,928 6,887	46,808 48,075	0	1,324	13	0	42
2011	1,035	335 343	14,657 13,778	357 333 338	18,242	6,643 6,661	302 432	7,262	47,438 44,173	ő	1,433 1,345 1,575	13 12 37	ŏ	116
2012	1,031	343	13,778	338	16 462	6,661	432	6 501	44,173	0	1,575	37	0	7
2013 2014	986 1,200	332 329 334	12,705 12,686	327 329 285	15,343 15,389 16,462	6,482 6,763	94 119	5,983 5,256 4,655	44,173 40,934 40,542 41,961 R 39,109 R 38,394 R 38,468	0	1,435 1,539 1,569	145 152 160	0 592	56 171
2015	1,291	334	13.565	285	16,462	6,763 6,878	116	_ 4,655	_ 41,961	0	1,569	160	0	8
2016	1,105	331 348	11,162 10,257	303 323	16,026 16,282	6,967 6,778	0	R 4,651 R 4,753	R 39,109	0	1,659 1,644	169	0	211
2017 2018	1,101 1,161	348	10,257 11,326	323 338	16,282 16,654	6,778 6,694	0 (s)	n 4,/53 R 3 457	n 38,394 R 38,469	0	1,644 1,664	142 155	0	161 161
2019	1,182	355 349 R 380	11,254	346	16,449	6,585	0	R 3,457 R 4,585	''39.219	0	1,623 1,764	143	0	161
2020	1.251	R 380	10.227	329	18,420	5.843	Ó	R 4,577 R 4,785	H 39.396	0	1,764	129	0	161
2021 2022	1,254 1,239	R 403 445	R 12,316 12,210	356 341	22,349 21,146	6,335 6,403	(s) (s)	<sup>H</sup> 4,785 4,664	R 46,141 44,764	0	1,689 1,713	132 139	0	161 161
2022	1,203	440	12,210	041	21,140	0,403	(5)	4,004	44,704	0	1,710	108	0	101

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Alaska (trillion Btu)

		1	T		Fossi	fuels						Fossil fuels (as commingled)	
						Petroleum						(as commingica)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	7.2	2.0	15.4	0.2	10.6	8.7	4.5	6.1	45.4	54.6	2.0	15.4	8.7
1965 1970	9.9 13.2	7.7	22.1 29.7	0.3 0.6	16.5 37.7	12.9 13.8	5.5 6.4	4.4	61.7	79.3	7.7 64.0	22.1 29.7	12.9
1970 1971	13.2 14.1	64.0 68.0	29.7 37.0	0.6 0.7	37.7 42.4	13.8 14.9	6.4 6.7	7.8 7.9	96.0 109.7	173.2 191.9	64.0 68.0	29.7 37.0	13.8 14.9
1972	12.8	75.0	36.6	0.7	45.0	19.4	7.3	9.0	117.9	205.7	75.0	36.6	19.4
1973	13.3	63.7	37.6	0.8	41.5	16.8	6.6	8.8	112.1	189.1	63.7	37.6	16.8
1974 1975	12.5 15.3	63.2 85.2	39.9 41.3	0.6 0.8	41.9 41.7	18.6 22.0	6.8 6.8	9.6 10.7	117.5 123.1	193.2 223.6	63.2 85.2	39.9 41.3	18.6 22.0
1975	13.7	90.6	55.5	1.3	41.7	24.0	8.2	9.9	141.2	245.4	90.6	55.5	24.7
1977	10.3	116.9	60.8	1.4	44.4	24.7 25.4	10.8	11.9	154.9	282.0	116.9	60.8	25.4
1978 1979	4.7 4.2	145.0	63.0 33.8	1.7 0.7	46.5 47.7	23.8 24.6	14.7 2.0	13.7 18.8	163.5 127.6	313.2 289.0	145.0 157.2	63.0 33.8	23.8 24.6
1979	4.2	157.2 153.8	38.9	0.7	54.0	19.3	2.0	14.0	129.3	287.4	157.2	38.9	19.3
1981	12.5	122.2	38.1	0.5	61.2	23.5	1.5	10.8	135.7 149.2	270.4	122.2	38.1	23.5
1982 1983	13.2 12.4	237.9	36.8 42.6	0.8 0.8	64.9 68.7	26.7 25.0	1.9 2.5	18.2 36.5	149.2 176.0	400.3	237.9 239.7	36.8 42.6	26.7 25.0
1983	12.4 12.9	239.7 258.0	42.6 46.7	1.0	85.5	25.0 28.0	2.5 3.2	36.5 36.5	200.8	428.0 471.7	258.0	42.6 46.7	25.0 28.0
1985 1986	11.6	214.0	59.4 44.2	1.2	85.8	29.6 28.5	19.3	41.7	237.0	462.6	214.0	59.4 44.2	29.6
1986	12.1	208.3	44.2	1.0	91.2	28.5	44.5	63.6	273.1	493.5	208.3	44.2	28.5
1987 1988	4.3 4.4	251.5 288.8	41.4 47.6	1.0 1.0	83.6 95.2	27.3 27.9	21.4 4.5	56.6 39.3	231.4 215.5	487.2 508.6	251.5 288.8	41.4 47.6	27.3 27.9
1989	4.7	321.2	64.5	1.1	104.7	26.7	2.2 2.7	32.8	231.9	557.9	321.2 326.8	64.5	26.7
1990	12.4	326.8	61.4	1.5	97.9	30.8	2.7	32.2	226.5	565.7	326.8	61.4	30.8
1991	12.7 12.5	368.0 383.9	56.8 67.5	1.5 1.5	96.1 82.9	26.8 30.9	3.7	19.6 25.0	204.7	585.3 608.9	368.0 383.9	56.8 67.5	26.8 30.9
1992 1993	13.6	383.9 376.0	67.5 72.2	1.5 0.9	82.9 83.2	30.9 31.2	4.8 4.5	21.4	212.5 213.5	603.1	376.0	67.5 72.2	31.2
1994 1995	12.6	367.6	66.1 74.5	0.9	91.2	34.1 36.6	4.5 4.7	22.4	219.3 235.2 242.0	599.4	367.6	66.1 74.5	34.1 37.2
1995 1996	12.9 11.2	432.8 443.6	74.5 68.9	1.0 0.9	95.9 105.8	36.6 34.4	4.7 5.7	22.5 26.4	235.2	680.9 696.8	432.8 443.6	74.5 68.9	37.2 35.1
1997	11.7	425.4	69.7	1.2	119.7	32.3	5.4	27.8	256.0	693.2	425.4	69.7	32.9
1998	16.5	434.4	66.9	1.2	124.2	34.7	5.2	26.5	258.7	709.6	434.4	66.9	35.1
1999 2000	16.4 16.5	422.8 438.0	70.8 63.3	1.0 0.9	134.1 146.7	33.0 30.9	6.7 5.0	29.8 28.6	275.5 275.3	714.7 729.7	422.8 438.0	70.8 63.3	33.4 31.1
2000	15.9	413.0	67.9	1.0	137.6	32.7	7.1	43.0	289.3	718.3	413.0	67.9	33.2
2002	16.4	420.8	62.9	1.0 1.2	143.2	32.7 30.5	6.6	33.0	289.3 277.4	714.6	413.0 420.8	67.9 62.9	30.8
2003 2004	12.6 14.1	415.9 407.9	58.2 81.8	1.2 0.8	155.2 175.5	30.5 35.7	5.4 4.4	34.9 36.0	285.4 334.1	713.9 756.1	415.9 407.9	58.2 81.8	30.8 36.1
2005	14.1	434.7	73.2	1.0	181.1	35.6	4.5	37.7	333.1	781.8	434.7	73.2	35.6
2006	15.0	375.7	80.9	1.1	180.0	35.6 35.2	4.5	40.7	342.3	733.0	375.7	80.9	35.2
2007 2008	13.7 14.7	372.2 343.9	78.3 75.3	0.8 1.3	164.7 135.0	35.6 34.3	4.6 2.5	39.0 30.4	323.1 278.7	708.9 637.4	372.2 343.9	78.3 75.3	35.6 34.3
2009	14.5	344 0	83.1	1.6	106.3	34 1	3.5	36.4	264.9	623.4	344 0	83.6	34.1
2010	14.5 15.5	335.0 339.8	83.1 79.2 83.8	1.4	112.5	34.8 33.6	2.2	42.4	272.5 268.8	622.0	335.0 339.8	83.6 79.5 84.6	34.8
2011 2012	15.5 15.5	339.8 347.2	83.8 78.8	1.3	103.4 93.3	33.6	1.9 2.7	44.8 40.2	268.8	624.1 612.8	339.8 347.2	84.6	33.6
2012	15.5	347.2 332.6	78.8 72.1	1.3 1.3	93.3 87.0	33.7 32.8	0.6	37.0	250.1 230.8	578.2	347.2	79.5 73.2	33.7 32.8
2014	18.2	329.3	72.0	1.3	87.3	32.2	0.7	32.6	226.1	573.6	329.3	73.1	34.2
2015 2016	19.5 16.6	333.9 330.9	77.0 63.1	1.1	93.3 90.9	34.8	0.7 0.0	28.9 _ 29.5	235.8	589.3 _ 567.3	333.9 330.9	78.2 64.3	34.8 35.2
2016 2017	16.4	343.9	57.8	1.2 1.2	90.9 92.3	35.2 34.2	0.0	R 30 2	R 215.8	R 576 1	343.9	59.1	35.2 34.2
2018	17.3	346.3	63.9	1.3	94.4	33.8	(s) 0.0	H 21 6	219.8 R 215.8 R 215.1 R 220.3 R 221.9	R 579 7	346.3	65.2	33.8
2019	17.6	343.4 R 374.6	63.5	1.3 1.3	93.3	33.3 29.5	0.0	R 29.0 R 29.0	H 220.3	R 581.3 R 615.0	343.4 R 374.6	64.8	33.3
2020 2021	18.5 18.7	R 374.6	57.7 R 70.4	1.3 1.4	104.4 126.7	29.5 32.0	0.0	R 29.0	R 260.4	R 615.0	R 395.6	58.9 R 71.0	29.5 32.0
2022	18.6	437.9	69.8	1.3	119.9	32.3	(s) (s)	29.6	252.4	709.0	437.9	70.4	32.3

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Alaska (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 1.0	3.7	NA	NA	NA	NA	3.7	0.0	NA	NA	R 4.7	0.0	0.0	R 59.3
1965 1970	0.0 0.0	R 1.2	4.9 5.0	NA NA	NA NA	NA NA	NA NA	4.9 5.0	0.0 0.0	NA NA	NA NA	R 6.1 R 6.3 R 6.5 R 6.3	0.0 0.0	0.0	R 85.3 R 179.5
1971	0.0	R 1.2 R 1.2	5.3 5.1	NA	NA	NA	NA	5.3	0.0	NA	NA	R 6.5	0.0	(s) 0.0	R 198.4 R 212.0
1972	0.0	R 1.2 R 1.0	5.1	NA NA	NA NA	NA	NA NA	5.1	0.0	NA NA	NA NA	H 6.3	0.0	0.0 0.0	H 212.0
1973 1974	0.0 0.0	R 1.1	4.9 4.9	NA NA	NA NA	NA NA	NA NA	4.9 4.9	0.0 0.0	NA NA	NA NA	R 5.8 R 6.0	0.0 0.0	0.0	R 195.0 R 199.2
1975	0.0	R 1 2	4.9	NA	NA	NA	NA	4.9	0.0	NA	NA	H61	0.0	0.0	R 229.7 R 252.0
1976 1977	0.0 0.0	R 1.3 R 1.7	5.2 6.1	NA NA	NA NA	NA NA	NA NA	5.2 6.1	0.0 0.0	NA NA	NA NA	H 6.5	0.0 0.0	0.0 0.0	R 252.0 R 289.9
1978	0.0	R 1.6	5.9	NA NA	NA NA	NA NA	NA NA	5.9	0.0	NA	NA	R 6.5 R 7.9 R 7.5 R 7.6	0.0	0.0	H 320.7
1979	0.0	H16	6.0	NA	NA	NA	NA	6.0	0.0	NA	NA	R 7.6	0.0	0.0	H 296 6
1980 1981	0.0 0.0	R 1.8	2.7 3.0	NA 0.0	NA NA	NA NA	NA 0.0	2.7 3.0	0.0 0.0	NA NA	NA NA	R 4.6 R 5.1 R 4.8	0.0 0.0	0.0 0.0	R 292.0 R 275.5
1982	0.0	R 2.0 R 1.9	2.9	0.0	NA	NA	0.0	2.9 3.3	0.0	NA	NA	R 4.8	0.0	0.0	R 405.1 R 433.4
1983	0.0	R 2.0 R 2.4	2.9 3.3 3.9	0.0	NA	NA	0.0	3.3	0.0	NA	0.0	R 5.4 R 6.3 R 6.5 R 5.0 R 5.9	0.0	0.0	R 433.4
1984 1985	0.0 0.0	R 2.6	3.9 4.0	0.0 0.0	NA NA	NA NA	0.0 0.0	3.9 4.0	0.0 0.0	0.0 0.0	(S)	116.3 R 6.5	0.0 0.0	0.0 0.0	R 478.0 R 469.2
1986 1987	0.0	R 2.8 R 3.0	2.3 2.9	(s) (s)	NA	NA	0.0	2.3 2.9	0.0	0.0 0.0	(s) (s) 0.0 0.0	B 5.0	0.0	0.0	R 498.6 R 493.1
1987	0.0	H 3.0 H 3.2	2.9	(s)	NA	NA	0.0	2.9	0.0	0.0	0.0	H 5.9	0.0	0.0	H 493.1
1988 1989	0.0 0.0	Ran	3.1 9.2	(s)	NA NA	NA NA	0.0 0.0	3.1 9.2	0.0 0.1	0.0 (s)	0.0 0.0	R 6.3 R 12.2	0.0 0.0	0.0 0.0	R 514.9 R 570.1
1990	0.0	R 3 3	8.2	(s) 0.0	NA	NA	0.0	8.2	0.1	(s)	0.0	H 11 5	0.0	(s) (s)	R 577.3 R 596.4
1991 1992	0.0 0.0	R 3.1 R 3.1	8.0 8.8	0.0 0.0	NA NA	NA NA	0.0 0.0	8.0 8.8	0.1 0.1	(s)	0.0 0.0	R 11.1 R 11.9	0.0 0.0	(s)	H 596.4
1993	0.0	R 4.4 R 4.6	7.1	0.0	NA	NA	0.0	7.1	0.1	(s) (s)	0.0	R 11.6 R 14.3	0.0	(s) (s)	R 620.9 R 614.6
1994	0.0	R 4.6	7.1 9.7	(s)	NA	NA	0.0	9.7	0.1	(s)	0.0 0.0	R 14.3	0.0	(s) (s)	H 613 8
1995 1996	0.0 0.0	R 4.7 R 4.3	8.3 8.0	0.6 0.7	NA NA	NA NA	0.0 0.0	8.9 8.8	0.1 0.1	(s) (s)	0.0 0.0	R 13.7	0.0 0.0	(s) (s)	R 694.6 R 710.0 R 701.3 R 715.7
1997	0.0	R 4.3 R 3.7	3.7	0.6	NA	NA	0.0	4.3	0.1	(s)	0.0	R 13.1 R 8.1	0.0	(s)	R 701.3
1998	0.0	R 3.8	1.9	0.3	NA	NA	0.0	2.2	0.1	(s)	0.0	H61	0.0	(s)	R 715.7
1999 2000	0.0 0.0	R 2.8 R 3.4 R 4.6	1.8 1.9	0.4 0.2	NA NA	NA NA	0.0 0.0	2.2 2.1	0.1 0.1	(s) (s)	0.0 0.0	R 5.0 R 5.6 R 8.1 R 8.5	0.0 0.0	(s) (s)	R 719.8 R 735.3
2001	0.0	R 4.6	3.0 3.2	0.5	(s)	NA	0.0	3 4	0.1	(s)	(s) 0.0	P 8.1	0.0	(s)	R 726.4 R 723.2
2002	0.0	R 4.9	3.2	0.3	(s)	NA	0.0	3.5	0.1	(s)	0.0	H 8.5	0.0	(s)	H 723.2
2003 2004	0.0 0.0	R 5.4 R 5.1	3.3 3.3	0.2 0.4	(s) (s)	NA NA	0.0 0.0	3.5 3.8	0.1 0.1	(s)	0.0 0.0	R 9.0 R 9.0	0.0 0.0	(s) (s)	R 722.8 R 765.1
2005	0.0	R 5.0	1.1	0.0	0.1	NA	0.0	1.2	0.1	(s)	(s)	R 6.3 R 5.5 R 5.9 R 5.6 R 7.5 R 8.0	0.0	(s)	R 788.1 R 738.5
2006 2007	0.0 0.0	R 4.2 R 4.4	1.1	0.0 0.0	0.2 0.2	NA NA	0.0 0.0	1.2 1.4	0.1 0.1	(s)	(s) (s) (s)	H 5.5	0.0 0.0	(s) (s)	H 738.5 E 714.9
2008	0.0	R 4 0	1.2 1.2	0.0	0.2	NA NA	0.0	1.4	0.1	(s)	(s)	R 5.6	0.0	(s)	H 643 0
2009	0.0	R 4.5 R 4.9	2.5 2.7	0.0	0.2	NA	0.0	2.8	0.2	(s)	R (s)	R 7.5	0.0	(s) (s)	R 630.8 R 630.0
2010 2011	0.0 0.0	R 4.9	2.7 2.7	0.0 0.0	0.2 0.6	NA 0.0	0.0 0.0	2.9 3.3	0.2 0.2	(s) (s)	n (s) R (s)	™ 8.0 R g 1	0.0 0.0	(s) (s)	□ 630.0 R 633.3
2012	0.0	R 5.4 R 4.9	2.3 3.4	0.0	(s) 0.3	0.0	0.0	2.3 3.7	0.2 0.2	(s)	(s) R (s) R (s) R (s) R 0.1 R 0.5 R 0.5	R 8.1 R 8.0 R 9.2	0.0	(s)	R 632.3 R 620.8
2013	0.0	R 4.9	3.4	0.0	0.3	0.0	0.0	3.7	0.2	(s)	R 0.5	R 9.2	0.0	(s) (s)	H 587 5
2014 2015	0.0 0.0	R 5.3 R 5.4	3.5 _ 7.5	2.1 0.0	0.9 (s)	0.0 0.0	0.0 (s)	6.5 7.5	0.2 0.2	(S) (S)	11 0.5 R 0.5	R 12.5 R 13.6	0.0 0.0	0.0 0.0	R 586.1 R 602.9
2016	0.0	R 5.7 R 5.6	R 8.1 6.9	0.0	1.1	0.0	(s) (s)	9.2 7.8	0.2 0.2	(s)	R 0.5 R 0.6 R 0.5	R 15.6 R 14.1	0.0	(s) (s)	R 582.9 R 590.2
2017 2018	0.0 0.0	H 5.6 R 5.7	6.9 7.4	0.0 0.0	0.9 0.9	0.0	(s)	7.8 8.2	0.2	(s)	H 0.5 H 0.5	H 14.1 P 14.6	0.0	(s)	H 590.2
2018	0.0	R 5.7	6.8	0.0	0.9	0.0 0.0	(s) 0.0	8.2 7.7	0.2 0.2	(s) (s)	R 0.5 R 0.4	H 12 0	0.0 0.0	(s) 0.0	R 593.3 R 595.2
2020	0.0	R 6.0	H 6.5	0.0	0.9	0.0	0.0	7.7 R 7.3	0.2	R (s)	R 0.4	R 14 0	0.0	0.0	R 629.0 R 688.3
2021 2022	0.0 0.0	R 5.8 5.8	R 6.3 7.7	0.0 0.0	0.9 0.9	0.0 0.0	0.0 0.0	R 7.2 8.5	0.2 0.2	R (s) 0.1	R 0.5 0.5	R 13.6 15.1	0.0 0.0	0.0 0.0	H 688.3 724.1
2022	0.0	5.6	1.1	0.0	0.9	0.0	0.0	6.5	0.2	0.1	0.5	15.1	0.0	0.0	124.1

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Alaska

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	325	2	2,541	46	1,972	1,657	708	1,176	8.099	0					296			
1970	491	56	4,706	151	6,735	2,621	1,015	1,352	16,580	0					1,106			
1980	0	125	6,138	191	9,618	3,676	18	2,387	22,028	0					2,577			
1990 2000	494 524	308 392	10,061 10,461	384 221	17,367 25,872	5,854 5,973	254 118	5,462 4,770	39,383 47,415	0					4,254 5,310			
2005	507	394	12,046	266	31,940	6,853	12	6,319	57,436	0					5,913			
2006	560	331	13,351	277	31,747	6,789	30	6,844	59,037	0					6,182			
2007	475	329	12,901	209	29,053	6,927	263	6,555	55,907	0					6,327			
2008 2009	558 531	299 304	12,370 13,872	334 411	23,817 18,746	6,708 6,708	195 3	5,101 5,928	48,525 45,668	0					6,326 6,270			
2009	561	294	13,272	357	19,850	6,708	37	6,887	47,280	0					6,247			
2011	626	294	14,089	333	18,242	6,643	69	7,262	46,638	ő					6,320			
2012	604	303	13,268	338	16,462	6,661	57	6,501	43,287	0					6,416			
2013	586	298	12,145	327	15,343	6,482	0	5,983	40,280	0					6,268			
2014 2015	545 560	297 303	12,179 12,984	329 285	15,389 16.462	6,763 6,878	0	5,256 4.655	39,916 41,264	0					6,165 6,159			
2015	461	303	10,355	303	16,462	6,967	0	R 4,655	R 38,302	168					6,123			
2017	478	319	9,377	323	16,282	6,778	0	R 4,753	R 37,514	182					6,186			
2018	459	330	10,482	338	16,654	6,694	(s)	R 3,457	R 37,625	176					5,972			
2019	437	325	10,383	346	16,449	6,585	0	R 4,585	R 38,348	130					5,819			
2020 2021	474 493	R 357 R 377	9,215 R 11,463	329 356	18,420 22,349	5,843 6,335	0	R 4,577 R 4,785	R 38,384 R 45,287	162 169					5,918 5,969			
2022	480	418	11,407	341	21,146	6,403	(s) (s)	4,765	43,961	183					6,002			
									Trillion	Btu								
1960	6.3	2.0	14.8	0.2	10.6	8.7	4.4	6.1	44.8	0.0	3.7	NA	NA	NA	1.0	57.8	R 1.5	R 59.3
1970	8.9	55.8	27.4	0.6	37.7	13.8	6.4	7.8	93.7	0.0	5.0	NA	NA	NA	3.8	167.2	R 12.3	R 179.5
1980	0.0	124.9	35.8	0.7	54.0	19.3	0.1	14.0	124.0	0.0	2.7			NA	8.8		R 31.6	R 292.0
1990 2000	7.8 8.2	291.5 402.3	58.6 60.9	1.5 0.9	97.9 146.7	30.8 31.1	1.6 0.7	32.2 28.6	222.6 268.8	0.0	8.2 1.9			(s)	14.5 18.1	544.7 699.4	R 32.6 R 35.9	R 577.3 R 735.3
2005	7.9	395.2	70.1	1.0	181.1	35.6	0.7	37.7	325.6	0.0	1.1			(s) (s)	20.2		R 37.9	R 788.1
2006	8.7	332.1	77.5	1.1	180.0	35.2	0.2	40.7	334.6	0.0	1.1			(s)	21.1	697.9	R 40.6	R 738.5
2007	7.4	331.0	74.6	8.0	164.7	35.6	1.7	39.0	316.5	0.0	1.2			(s)	21.6	678.0	R 36.9	<sup>R</sup> 714.9
2008	8.5	300.5	71.5	1.3	135.0	34.3	1.2	30.4	273.7	0.0	1.2			(s)	21.6		R 37.0	R 643.0
2009	8.2	305.7	80.1	1.6	106.3	34.1	(s)	36.4	258.5	0.0	2.5			(s)	21.4	596.4	R 34.7 R 34.3	R 631.1 R 630.1
2010 2011	8.6 9.5	295.0 297.5	76.6 81.3	1.4 1.3	112.5 103.4	34.8 33.6	0.2 0.4	42.4 44.8	268.0 264.9	0.0	2.7 2.7			(s) (s)	21.3 21.6		R 36.1	R 632.5
2012	9.2	307.0	76.5	1.3	93.3	33.7	0.4	40.2	245.5	0.0	2.3			(s)	21.9	586.0	R 35.5	R 621.5
2013	9.0	298.6	70.0	1.3	87.0	32.8	0.0	37.0	228.0	0.0	3.4			(s)	21.4	560.6	R 27.7	R 588.3
2014	8.3	297.3	70.2	1.3	87.3	34.2	0.0	32.6	225.6	0.0	3.5			(s)	21.0		R 30.3	R 586.2
2015	8.5	303.7	74.8	1.1	93.3	34.8	0.0	28.9	232.9	0.0	7.5	(s)		(s)	21.0	573.8	R 30.2	R 604.0
2016 2017	7.0 7.2	302.7 314.9	59.6 54.0	1.2 1.2	90.9 92.3	35.2 34.2	0.0	29.5 R 30.2	216.4 R 212.0	R 0.6 R 0.6	R 8.1 6.9		0.2	(s)	20.9 21.1	R 555.7 R 562.9	R 27.3 R 27.6	R 583.0 R 590.6
2017	7.2 6.9	314.9	54.0 60.4	1.2	92.3 94.4	34.2 33.8	0.0 (s)	R 21.6	R 211.5	R 0.6	6.9 7.4			(s) (s)	21.1	R 567 9	R 25.8	R 593.8
2019	6.6	318.9	59.8	1.3	93.3	33.3	0.0	R 29.0	R 216.7	R 0.4	6.8			(s)	19.9	R 569.5	R 26.2	R 595.7
2020	7.1	R 351.7	53.0	1.3	104.4	29.5	0.0	R 29.0	R 217.3	R 0.6	R 6.5	0.0	0.2	R (s)	20.2	R 603.5	H 25.8	R 629.3
2021	7.4	R 370.1	<sup>R</sup> 66.1	1.4	126.7	32.0	(s)	R 30.4	R 256.5	R 0.6	R 6.3			R (s)	20.4	R 661.5	R 27.0	R 688.5
2022	7.3	411.1	65.8	1.3	119.9	32.3	(s)	29.6	248.9	0.6	7.7	0.0	0.2	0.1	20.5	696.3	28.0	724.3

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Alaska

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total e,h
1960	38	(s)	866	24	0	890				151			
1965	38 20 13	(s) 1	1,110	24 51	10	1,171				151 292			
1970	13	6	1.362	51	19	1.432				527			
1970 1975	5	10	1,621	46	91	1,758				898			
1980	0	8	1.172	39	0	1,211				1,092			
1985	96 99	13	1,274 1,557	128	1	1,402				1,674			
1990	99	14 15	1,557	200	. 3	1,759 2,129				1,661 1,713			
1995	68	15	2,024	104	(s)	2,129				1,713			
2000	58	16	1,731	125	13	1,870				1,855			
2005	40 50	18	1,619 1,932 1,458	158 138	31	1,808				2,062			
2006 2007	50 47	21 20	1,932	138 106	275	2,346 1,725				2,120			
2007	47	20	1,458	106	161	1,725				2,114			
2008	0	21	1,248	193	140 14	1,581				2,130			
2009 2010	0	20 19	1,500 1,504	183 153	14	1,697 1,672				2,117 2,093			
2011	0	20	1,393	130	15 25 7	1,549				2,134			
2011	ő	21	1,356	131	7	1,343				2,160			
2012 2013	ŏ	21 19	1,356 1,200	96	5	1,494 1,301				2,104			
2014	ŏ	18	1 155	101	6	1,261				2 044			
2015	ŏ	18 19	1,155 1,349	92	7	1,448				2,044 2,044			
2016	Ö	18	1,246	91	11	1,347				2.006			
2017	0	20	1,347	116	(s)	1 463				2,060 1,975			
2018	0	19	1,111	120	(s)	1,230				1,975			
2019	0	18	1.141	104	(s)	1.245				1.928			
2020 2021	0	21 22	1,239 R 1,401	113	(s)	1,352 R 1,510				2,089 2,084			
2021	0	22	H 1,401	109	(s)	H 1,510				2,084			
2022	0	20	1,225	105	(s)	1,330				2,050			
							Trillion Btu						
1960	0.7	0.2	5.0	0.1	0.0	5.1	1.8	NA	NA	0.5	8.3	R 0.8	_ <sup>R</sup> 9.1
1965	0.4	1.5 6.2	6.5	0.2	0.1	6.7	1.6	NA	NA	1.0	11.1	R 2.7 R 5.9	R 13.9
1970 1975	0.2	6.2	7.9	0.2 0.2 0.2	0.1	8.2	1.3	NA	NA	1.8	17.8	H 5.9	R 23.7 R 35.0
1975	0.1	10.4	9.4	0.2	0.5	10.1	1.4	NA	NA	3.1	25.1	R 9.9 R 13.4 R 14.3 R 12.7 R 10.5 R 13.2 R 13.2 R 13.9 R 12.3 R 12.5	n 35.0
1980 1985	0.0	7.9 13.3	6.8	0.1	0.0	7.0 7.9	0.9 1.9	NA	NA	3.7 5.7	19.6	n 13.4	n 33.0
1985	1.5	13.3	7.4	0.5	(s)	7.9	1.9	NA	NA	5.7	30.4	" 14.3 B 40.7	R 33.0 R 44.6 R 44.8 R 46.8 R 48.4 R 50.2
1990 1995	1.6 1.1	13.4 15.3	9.1 11.8	0.8 0.4	(s) (s)	9.9 12.2	1.5 1.8	(s) (s)	(s) (s)	5.7 5.8	32.0 36.3	R 12.7	H 44.8
2000	0.9	16.4	10.1	0.4	0.1	10.6	1.5	(s)	(s)	6.3	35.9	R 10.5	R 40.0
2005	0.6	18.1	9.4	0.6	0.1	10.0	0.9	(s)	(6)	7.0	36.9	R 13.2	R 50.2
2005	0.0	20.7	11.2	0.0	1.6	13.3	0.9		(8)	7.0	42 Q	R 13.2	R 56.8
2006 2007	0.8 0.7	20.7 20.0	8.4	0.5 0.4	1.6 0.9	13.3 9.8	0.8 0.9	(s) 0.1	(5)	7.2 7.2 7.3 7.2	42.9 38.6	R 12.3	R 56.8 R 50.9 R 51.1
2008	0.0	21.6	7.2	0.7	0.8	8.7	1.0	0.1	(s)	7.3	38.7	R 12.5	R 51.1
2009	0.0	20.1	8.7	0.7	0.1	9.4	2.1	0.1	(s)	7.2	39.0	R 11.7	R 50.7
2010	0.0	18.8	8.7 8.7	0.6	0.1	9.4	2.1 2.3	0.1	(s)	(.1	39.0 37.7	R 11.7 R 11.5 R 12.2 R 11.9 R 9.3	R 50.7 R 49.2 R 51.0 R 51.3 R 45.6
2011 2012	0.0	20.5 21.6	8.0	0.5	0.1	8.7 8.4 7.3	2.2 1.9	0.1	(s)	7.3 7.4 7.2	38.8 39.3	R 12.2	R 51.0
2012	0.0	21.6	7.8	0.5	(s)	8.4	1.9	0.1	(s)	7.4	39.3	<sup>H</sup> 11.9	H 51.3
2013	0.0	19.2	6.9	0.4	(s)	7.3	2.4	0.1	(s)	7.2	36.3	_H 9.3	H 45.6
2014 2015	0.0	17.8 18.6	6.7 7.8	0.4	(s)	7.1 8.2	2.5 5.9	0.1	(s)	7.0 7.0	34.4	P 10 0	
2015	0.0	18.6	7.8	0.4	(s)	8.2	5.9	0.1	(s)	7.0	39.7	R 10.0 R 8.9 R 9.2	R 49.7 R 47.7 R 50.0 R 46.3 R 45.5
2016	0.0	17.8	7.2 7.8	0.3	0.1	7.6 8.2	6.4	0.1	(s)	6.8	38.7	n 8.9	n 47.7
2017	0.0	20.0	7.8	0.4	(s)		5.4	0.1	(S)	7.0	40.8	R 8.5	'' 50.0 B 46.0
2018 2019	0.0 0.0	18.1 17.6	6.4 6.6	0.5 0.4	(s)	6.9 7.0	5.9	0.1 0.1	(s)	6.7 6.6	37.8	R 8.7	11 46.3 B 45 5
2019	0.0	20.7	0.0 7.1	0.4	(s)	7.0	6.4 5.4 5.9 5.5 8 4.9	0.1	(s)		30.9 R 40.4	o. / R o 1	H 40.5
2020 2021	0.0	20.7 21.1	7.1 R 8.1	0.4	(s) (s)	7.6 R 8.5 7.5	R 4.8	0.1 0.1	R (S)	7.1 7.1	36.9 R 40.4 R 41.6	R 9.1 R 9.4	R 49.5 R 51.1
2022	0.0	19.9	7.1	0.4	(s)	7.5	6.0	0.1	(s)	7.0	40.4	9.6	50.0
	0.0	10.0	7.1	О.Т	(3)	7.0	0.0	V. I	(3)	7.0	70.7	0.0	00.0

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Alaska

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet	•		Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	26	0	268	18	0	130	464	880	NA			NA	99			
1965 1970	15 10	2 13	268 344 422	18 39	0	130 253 246	464 751 807	1,387 1,514	NA NA			NA NA	99 267 478			
1975	12	14	502	39 35	Ō	415	558	1,510	NA			NA	657			
1980 1985	0 341	17 20	577 901	30 98	0	258 268	4	869 1,269	NA NA			NA NA	728 1,898			
1990	395	22	1,049	153	(s)	52	Ö	1,254	0			0	2,133			
1995 2000	455 466	25 26	1,035 1,155	80 96	(s) (s)	21 64	0	1,136 1,315	0			0	2,372 2,418			
2005	465	17	1.006	98	1	168	ŏ	1.272	ŏ			Ő	2,695			
2006 2007	508 426	19 19	1,166 981	110 84	185 106	156 176	3	1,620 1,347	0			0	2,819 2,828			
2008	558	17	1,226	131	94	116	1	1,569	ŏ			Ŏ	2,852			
2009 2010	527 558	17 16	1,093 1,924	183 150	12 16	64 157	0	1,352 2,247	0			0	2,841 2,830			
2011	621	19	1,743	163	18	128	0	2,053	Ö			Ö	2,854			
2012 2013	603 585	20 19	1,481 1,170	184 199	14 5	95 85	0	1,774 1,459	0			0	2,875 2,824			
2014	544	18	1,264	196	3	72	Ö	1,535	Ō			Ö	2,762			
2015 2016	559 460	18 16	1,520 1,034	167 172	3	300 153	0	1,989 1,362	0 168			0 (s)	2,763 2,731			
2017	476	16	1,141	177	(s)	104	Ö	1,422	182			1	2,705			
2018 2019	458 435	14 15	1,289 1,269	194 205	(s) (s)	104 104	0	1,587 1,578	176 130			1	2,646 2,639			
2020	473	17	1 144	184	(s)	104	0	1 433	162			2	2.524			
2021 2022	492 478	17 16	R 1,515 1,307	212 204	(s) (s)	106 200	0	R 1,833 1,711	169 183			4 5	2,559 2,576			
			·					Tril	lion Btu				· · · · · · · · · · · · · · · · · · ·			
1960	0.5 0.3	0.0 2.3	1.6	0.1	0.0	0.7	2.9 4.7	5.2 8.2	NA	(s)	NA	NA	0.3 0.9	6.1	R <sub>0.5</sub>	R 6.6
1965 1970	0.3 0.2	2.3 12.6	2.0 2.5	0.2 0.2	0.0 0.0	1.3 1.3	4.7 5.1	8.2 9.0	NA NA	(s) (s)	NA NA	NA NA	0.9 1.6	11.7 23.4	R 2.5 R 5.3	R 14.2 R 28.7
1975	0.2	14.5	2.9	0.1	0.0	2.2	3.5	8.7	NA	(s)	NA	NA	2.2 2.5	25.7	R 7.3	R 33.0
1980 1985	0.0 5.4	16.6 20.5	3.4 5.2	0.1 0.4	0.0 (s)	1.4 1.4	(s) 0.0	4.9 7.0	NA NA	(s)	NA NA	NA NA	2.5 6.5	23.9 39.4	R 8.9 R 16.2	R 32.9 R 55.6
1990	5.4 6.2	20.5	6.1	0.6	(s)	0.3	0.0	7.0	0.0	(s) 0.2	(s)	0.0	7.3	41.1	R 164	R 55.6 R 57.5
1995 2000	7.2 7.3	25.1 27.2	6.0 6.7	0.3 0.4	(s) (s)	0.1 0.3	0.0 0.0	6.4 7.4	0.0 0.0	0.3 0.3	(s) (s)	0.0 0.0	8.1 8.3	47.1 50.4	R 14.6 R 16.3	R 61.7 R 66.8
2005	7.3 7.3	17.0	5.9	0.4	(s)	0.9	0.0	7.1	0.0	0.2	(s)	0.0	9.2	40.7	H 17 3	R 58.0
2006 2007	7.9 6.6	18.6 18.9	6.8 5.7	0.4 0.3	1.0 0.6	0.8 0.9	(s) 0.0	9.1 7.5	0.0 0.0	0.2 0.1	(s) (s)	0.0 0.0	9.6 9.7	45.4 42.9	R 18.5 R 16.5	R 63.9 R 59.3
2008	8.5	17.1	7.1	0.5	0.5	0.6	(s) 0.0	8.7	0.0	0.2	0.1	0.0	9.7	44.3	H 167	H 61.0
2009 2010	8.1 8.5	16.7 16.0	6.3 11.1	0.7 0.6	0.1 0.1	0.3 0.8	0.0 0.0	7.4 12.6	0.0 0.0	0.3 0.3	0.1 0.1	0.0 0.0	9.7 9.7	42.3 47.1	R 15.7 R 15.5	R 58.0 R 62.7
2011	9.4	19.6	10.1	0.6	0.1	0.6	0.0	11.4	0.0	0.3	0.1	0.0	9.7	50.6	R 16.3	R 67.0
2012 2013	9.2 8.9	20.1 18.7	8.5 6.7	0.7 0.8	0.1 (s)	0.5 0.4	0.0 0.0	9.8 8.0	0.0 0.0	0.3 0.7	0.1 0.1	0.0 0.0	9.8 9.6	49.3 46.1	R 15.9 R 12.5	R 65.2 R 58.6
2014	8.3	17.9	7.3	0.8	(s)	0.4	0.0	8.4	0.0	0.9	0.1	0.0	9.4	45.0	R 13.6	R 58.6
2015 2016	8.5 7.0	18.5 16.0	8.8 6.0	0.6 0.7	(s) (s)	1.5 0.8	0.0 0.0	10.9 7.4	0.0 R 0.6	1.4 1.5	0.1 0.1	0.0 (s)	9.4 9.3	48.9 R 41.8	R 13.5 R 12.2	R 62.4 R 54.0
2017	7.0 7.1	15.4	6.6	0.7	(s)	0.5	0.0	7.8	R06	1.4	0.1	(s)	9.2	R / 1 6	R 10 1	R 54.0 R 53.7
2018 2019	6.9 6.6	14.1 14.3	7.4 7.3	0.7 0.8	(s) (s)	0.5 0.5	0.0 0.0	8.7 8.6	R 0.6 R 0.4	1.3 1.2	0.1 0.1	(s) (s)	9.0 9.0	R 40.8 R 40.2	R 11.4 R 11.9	R 52.2 R 52.1
2020	7.1	16.3	6.6	0.7	(s)	0.5	0.0	7.8	H 0.6	1.5	0.1	(s)	8.6	H 42.0	H 11.0	R 52.1 R 53.1
2021 2022	7.4 7.3	R 16.5 15.8	R 8.7 7.5	0.8 0.8	(s) (s)	0.5 1.0	0.0 0.0	R 10.1 9.3	R 0.6 0.6	1.5 1.5	0.1 0.1	(s) (s)	8.7 8.8	R 44.8 43.5	R 11.6 12.0	R 56.4 55.5
	7.0	10.0	7.0	0.0	(0)	1.0	0.0	0.0	0.0	1.0	V.1	(3)	0.0	40.0	12.0	00.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Alaska

					Petrol	eum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet	l		Thousand	d barrels	l		Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>	Mi	llion Wh	End use f,k	system energy losses <sup> </sup>	Total <sup>f,k</sup>
1960	256	2	878	4	0	229	141	1,252	0				NA	45			
1965	256 339	2 2	1,238	(s)	83 107	60	417	1,798	Ö				NA NA	59			
1970 1975	467 594	19 40	1,923 2,117	60 130	107	73 31	812 1.146	2,975 3,530	0				NA NA				
1980	0	100	1,784	119	111	14	1,795	3.823	Ō				NA	757			
1985 1990	0	140 271	1,713 1,413	91 25	406 55	2,577 116	6,433 4,872	11,220 6,481	0				NA 0				
1995	ő	358	3,099	85	62	375	3,298	6.920	ő				ő	546			
2000 2005	1	342 356	2,266 1,912	(s)	25 102	0	4,137	6,428 7,948	0				0	1,007			
2005	2	289	2,187	25	102	0	5,927 6,053	7,948 8,368	0				0				
2007	2	288	2,691	16	66	Ō	5,956	8,729	Ō				Ō	1,384			
2008 2009	(s)	258 265	2,709 3,292	9 43	73 69	1 3	4,590 5,616	7,382 9,024	0				0	1,344 1,311			
2010	4	256	2,455	52	202	4	6,586	9,299	ő				Ö	1,324			
2011	5	251 258	3,309	38 21	194	0	6,960	10,502	0				0	1,331			
2012 2013	1	258	4,056 4,225	29	211 228	0	6,247 5,758	10,536 10,240	0				0				
2014	1	261	4.022	32 24	127	Ö	5.032	9.213	Ö				Ö	1,360			
2015 2016	1	266 268	4,167 3,457	24 39	97 99	0	4,293 R 4,319	8,582 R 7,914	0				0 (s)				
2017	1	283	1,981	24	100	Ö	H 4 437	H 6 5/12	0				(s)	1,421			
2018		296	2,131	19	104	(s) 0	R 3,132 R 4,252	R 5,386	0				(s)	1,352			
2019 2020	1	292 P 319	1,574 1,615	34 31	104 107	0	R 4,318	R 5,964 R 6,071	0				(S)	1,252 1,304			
2021	i	R 338	2,632	33	104	(s) (s)	R 4,412	R 7,181	ŏ				(s)	1,327			
2022	1	382	2,660	29	109	(s)	4,280	7,078	0				(s)	1,376			
									Trillion Bt								
1960 1965	5.0 6.5	1.9 1.8	5.1 7.2	(s) (s)	0.0 0.4	1.4 0.4	0.8 2.6	7.4 10.6	0.0 0.0	1.8 3.2	NA NA	NA NA	NA NA	0.2 0.2		R 0.2 R 0.5	R 16.5 R 22.9
1970	8.5	19.6	11.2	0.2	0.4	0.4	5.0	17.5	0.0	3.7	NA NA	NA NA	NA NA		49.6	R 1 1	B = 0. 7
1975	10.5	40.4	12.3	0.5	0.6	0.2	7.1	20.6	0.0	3.5	NA	NA	NA	1.7	76.6	H 5.4	R 82.0
1980 1985	0.0	100.3 140.7	10.4 10.0	0.4 0.3	0.6 2.1	0.1 16.2	11.0 38.7	22.4 67.3	0.0 0.0	1.8 2.1	NA 0.0	NA NA	NA NA			R 9.3 R 3.6	R 136.3 R 215.0
1990	0.0	256.1	8.2	0.1	0.3	0.7	29.2	38.5	0.0	6.5	0.0	(s)	0.0	1.6	302.6	R35	T 306 1
1995	0.0	360.0	18.0	0.3	0.3	2.4 0.0	20.0	41.0	0.0	6.2 0.1	0.0	(s) 0.0	0.0		409.1	R 3.4 R 7.0	R 412.5 R 400.3 R 416.2
2000 2005	(s) (s)	351.1 357.5	13.2 11.1	(s) (s)	0.1 0.5	0.0	25.3 35.6	38.6 47.3	0.0 0.0	0.1	0.0	0.0	0.0 0.0	3.9	408.8	R 7.4	R 416.2
2006	(s)	289.9	12.7	0.1	0.5	0.0	36.3	49.6	0.0	0.1	0.0	0.0	0.0	4.2	343.9	Raz	R 352.1 R 354.7
2007 2008	(s)	290.0 259.7	15.6 15.7	0.1	0.3 0.4	0.0	35.8 27.6	51.7 43.7	0.0 0.0	0.1 0.1	0.0 0.0	0.0 0.0	0.0 0.0	4.7 4.6	346.6 308.1	R 8.1 R 7.9	R 354.7
2009	0.1	266.5	19.0	(s) 0.1	0.4	(s) (s) (s) 0.0	34.7	54.3	0.0	0.1	0.0	0.0	0.0		325.4	R 7.3 R 7.3	R 315.9 R 332.7 R 325.0
2010	0.1	256.9	14.2	0.2	1.0	(s)	40.7	56.2	0.0	0.1	0.0	0.0	0.0	4.5	317.7	R 7.3	R 325.0
2011 2012	0.1 (s)	253.8 261.2	19.1 23.4	0.1 0.1	1.0 1.1	0.0	43.2 38.9	63.4 63.4	0.0 0.0	0.2 0.1	0.0 0.0	0.0 0.0	0.0 0.0		322.0 329.4	R 7.6 R 7.6	R 329.6 R 337.1
2013	(s)	260.1	24.3	0.1	1.2	0.0	35.8	61.4	0.0	0.2	0.0	0.0	0.0	4.6	326.3	Rsq	H 332 2
2014 2015	(s)	261.3 266.0	23.2 24.0	0.1	0.6	0.0 0.0	31.4 27.0	55.4 51.6	0.0 0.0	0.2	0.0	0.0 0.0	0.0 0.0			R 6.7 R 6.6	R 328.2 R 329.0 R 327.8
2015	(S)	268.4	19.9	0.1 0.2	0.5 0.5	0.0	27.7	18.3	0.0	0.2 0.1	(s)	0.0	0.0 (s)		321.6	R62	R 327.8
2017	(s)	279.2	11.4	0.1	0.5	0.0	R 28.5	R 40.5	0.0	0.1	(s)	0.0	(s)	4.8	R 324 7	R63	R 331.0 R 331.5
2018 2019	(s)	288.1 286.6	12.3 9.1	0.1 0.1	0.5 0.5	(s) 0.0	R 19.9 R 27.2	R 32.8 R 37.0	0.0	0.1 0.1	(s) 0.0	0.0	(s) (s)	4.6 4.3	R 325.6 R 328.0	HEE	<sup>□</sup> 331.5 R 333 e
2020	(s)	R 21/1 2	0.3	0.1	0.5	0.0	R 27 6	R 37.6	0.0	0.1	0.0	0.0	(s)	4.5 4.5 4.5	R 356.4	R 5.7	R 333.6 R 362.1 R 386.8
2021 2022	(s)	R 332.0 375.0	15.2 15.3	0.1 0.1	0.5 0.6	(s) (s)	R 28.4 27.6	R 44.2 43.6	0.0	0.1 0.2	0.0	0.0	(s)		n 380.8	R 6.0 6.4	R 386.8 429.8
2022	(s)	3/5.0	15.3	0.1	0.6	(S)	27.6	43.6	0.0	0.2	0.0	0.0	(s)	4.7	423.4	6.4	429.8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Alaska

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
960	4	(s)	1,032	528	0	1,972	3	1,527	15	5,077	0			
965	1	(s) 0	293	528 789	(s)	3,005	3 40	2,113	15 66	6,307	Ó			
970	1	17	462	1,000	1	6,735	59	2,267	135	10,659	0			
975 980	(s)	(s) (s)	466 498	2,157 2,605	4	7,420 9,618	121 94	3,658 3,306	484 0	14,305 16,125	0			
985	0	5	490	5.793	14	15,231	86	4.964	19	26.596	0			_
990	0	2	491	6,042	6	17,367	96 92	5,747	138	29,888	0			-
995	0	2	389	6,053	2	16,921	92	7,065	114	30,636	0			-
000 005	0	7	521 277	5,308 7,509	(s)	25,872 31,940	98 83	5,884 6,583	118 12	37,801 46,407	0			-
)05 )06	0	3	250	7,509 8,065	4	31,940 31,747	81	6,530	27	46,407 46,704	0			_
007	0	2	248	7,771	3	29,053	83	6,685	263	44.105	0			_
800	0	2	200	7,186	1	23,817	83 77 70	6,518	193	37,993 33,595	0			-
009	0	2	217	7,987	1	18,746	70	6,575	0	33,595	0			_
010	0	3	169	7,388 7,643 6,375	1	19,850	102	6,518	34	34,062	0			-
)11 )12	0	3	159 154	7,643 6,375	1 2	18,242 16,462	100 79	6,321 6,355	69 57	32,535 29,484	0			_
113	0	1	139	5 550	3	15,343	77	6 169	0	27,404	0			_
14	ŏ	(s)	139 130	5,550 5,738	ĭ	15,389	84	6,169 6,564	ŏ	27,280 27,907	Ŏ			-
15	0	`1	259	5.949	1	16.462	93 R 72 B 71	6,481	0	29.245	0			-
16	0	(s)	246	4,618	2	16,026	H 72	6,715	0	R 27,679	0			-
17	0	(s)	245	4,908	6	16,282	R 71	6,575	0	R 28,087	0			-
18 19	0	(s)	250 247	5,952 6,398	5 4	16,654 16,449	R 87	6,485 6,376	0	R 29,421 R 29,561	0		 	-
20	0	(s)	181	5 217		18,420	R 78	5 632	0	R 29 528	0			_
)21	ŏ	(s)	205	5,217 R 5,915	(s) 2	22,349	R 78 R 75	5,632 6,125	ŏ	n 34,764	ŏ			-
022	0	(s)	213	6,215	3	21,146	77	6,093	0	33,842	0			-
							Tri	lion Btu						
960	0.1	(s) 0.0 17.4	5.2	3.1	0.0	10.6	(s) 0.2 0.4	8.0	0.1	27.1	0.0	27.1	0.0	27.
965 970	(s)	0.0	1.5	4.6	(s) (s)	16.5 37.7	0.2	11.1	0.4	34.4	0.0	34.4	0.0	34
170 175	(s) (s)	0.1	2.3 2.4	5.8 12.6	(s) 0.0	37.7 41.7	0.4	11.9 19.2	0.9 3.0	59.0 79.6	0.0 0.0	76.4 79.7	0.0 0.0	76 79
180	0.0	0.1	2.4	15.2	(s)	54.0	0.6	17.4	0.0	89 7	0.0	89.8	0.0	89
85	0.0	0.1 5.2	2.5 2.5	33.7	(s) 0.1	85.8	0.5	26.1	0.1	148.8	0.0	153.9	0.0	89 153
90	0.0 0.0	1.6	2.5	35.2	(s) (s)	97.9	0.6	30.2	0.9	167.3	0.0	168.9	0.0	16
95		2.4	2.0	35.2	(s)	95.9	0.6	36.8	0.7	171.2	0.0	173.6	0.0	173
00 05	0.0 0.0	7.6	2.6 1.4	30.9 43.7	(s)	146.7 181.1	0.6 0.5	30.6 34.2	0.7 0.1	212.2 261.0	0.0 0.0	219.7 263.7	0.0 0.0	219 269
)6	0.0	2.7 2.9	1.4	46.8	(s) (s)	180.0	0.5	34.2 33.9	0.1	261.0 262.6	0.0	265.7 265.7	0.0	26
07	0.0	2.2	1.3	44.9	(s)	164.7	0.5	33.9 34.4 33.3	1.7	247.5	0.0	249.9	0.0	249
08	0.0	2.1	1.0	41.5	(s)	135.0	0.5	33.3	1.2	212.6	0.0	214.9	0.0	21
09 10	0.0 0.0	2.4 3.3	1.1	46.1 42.7	(s)	106.3 112.5	0.4	33.5 33.0	0.0 0.2	187.4	0.0	189.8 193.2	0.0	189 190
10	0.0	3.3	0.9	42.7	(s)	112.5	0.6	33.0	0.2	189.9	0.0	193.2	0.0	193
11 12	0.0 0.0	3.5 4.0	0.8 0.8	44.1 36.8	(s)	103.4	0.6	32.0	0.4	181.4 163.9	0.0 0.0	184.8 167.9	0.0 0.0	18- 16
13	0.0	0.6	0.8	32.0	(s) (s)	93.3 87.0	0.5 0.5	32.2 31.2	0.4 0.0	151.4	0.0	151.9	0.0	151
14	0.0 0.0	0.3	0.7	33.1	(s)	87.3 93.3	0.5	33.2	0.0	154.7	0.0	155.0	0.0	155
15		0.6	1.3	34.3	(s)		0.6	33.2 32.8 33.9	0.0	154.7 162.3	0.0	162.9	0.0	163
16	0.0	0.5	1.2	26.6	(s)	90.9	R 0.4 R 0.4	33.9	0.0	153.1	0.0	R 153.5	0.0	R 150
17	0.0	0.3 0.6	1.2 1.3	28.3 34.3	(s)	92.3 94.4	R 0.4	33.2 32.8	0.0 0.0	155.5 R 163.2	0.0	R 155.8 163.8	0.0 0.0	R 155
18 119	0.0 0.0	0.6	1.3 1.2	34.3 36.8	(s)	94.4 93.3	0.5	32.8 32.2	0.0	163.2	0.0 0.0	163.8 164.5	0.0	160
)20	0.0	0.4	0.9	30.0	(s) (s)	104.4	0.5	28.5	0.0	164.3	0.0	164.7	0.0	164
)21 )22	0.0 0.0	0.5 0.5	1.0	R 34.1 35.8	(s)	126.7	R 0.5 0.5	30.9 30.8	0.0 0.0	164.3 R 193.7 188.6	0.0	R 194.2	0.0	R 192
122	0.0	0.5	1.1	35.8	(s)	119.9	0.5	30.8	0.0	188.6	0.0	189.0	0.0	189

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Alaska

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	52	0	95	0	3	99	0	290		0	NA	NA	0	
1965 1970	151 249	2 8	308 394	0	4	312 399	0	350 363		0	NA NA	NA NA	0	
1975	257	20	694	0	1	696	Ö	357		0	NA	NA	(s) 0	
1980 1985	273 296	29 34	538 518	0	353 476	891 994	0	539 748		0	NA 0	NA (s)	0	
1990	290	34	486	0	171	658	Ö	975		0	0	0	1	
1995 2000	290 293 500 398	34 30 36 39	486 592 415	0	257 670	849 1,085	0	1,372 1,002		0	0	0	1	
2005	398	39	538	ŏ	696	1.234	ő	1 464		ő	ŏ	1	i	
2006 2007	408 414	43 41	586 633	0	682 471	1,268 1,105	0	1,224 1,291		0	0	1	1	
2008	427	43	651	Õ	197	848	Õ	1.172		Õ	Õ	(s) 7	1	
2009 2010	437 410	43 38 40	651 594 489	0	546 306	1,140 795	0	1,324 1,433		0	0	7 13	1	
2011	409 427	42 40	568	Õ	232 376	800	Õ	1.345		Ö	0	12 37	1	
2012 2013	427 400	40 34	510 560	0	3/6 94	886 654	0	1,575 1,435		0	0	37 145	1	
2014	655	34 32 30	507	Õ	119	626	Ŏ	1.539		Ö	Ö	152	Ó	
2015 2016	731 644	30 28	581 807	0	116 0	697 807	0	1,569 1,491		0	0	160 169	0 (s)	
2017	623 702 745	28 29 25 24	880	Õ	Ŏ	880	Ö	1,462		Ö	Ö	142	1	
2018 2019	702 745	25 24	844 871	0	0	844 871	0	1,489 1,493		0	0	155 143	1	
2020 2021	777	23 26	1,012	0	0	1 012	0	1.602		0	0	129 132	0	
2022	761 760	26 27	853 804	0	0	853 804	0	1,520 1,530		0	0	132	0	
							Trillion Btu							
1960 1965	0.9 2.7	0.0	0.6 1.8	0.0 0.0	(s) (s)	0.6 1.8	0.0 0.0	R 1.0	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0 (s) 0.0	R 2.5 R 7.9
1970	4.3	2.2 8.2 19.7	2.3	0.0	(s)	2.3	0.0	R 1.2 R 1.2 R 1.2	0.0	0.0	NA	NA	(s)	R 16.1 R 29.5
1975 1980	4.3 4.5 4.3 4.7	19.7 28.9	2.3 4.0 3.1 3.0	0.0 0.0	(s) 2.2	4.1 5.4	0.0 0.0	H1Ω	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	H 29.5 P 40.4
1985	4.7	34 4	3.0	0.0	3.0	6.0	0.0	R 2.6 R 3.3 R 4.7	0.0	0.0	0.0	(s)	0.0	H 47 6
1990 1995	4.6 4.6	35.3 29.9	2.8 3.4	0.0 0.0	1.1 1.6	3.9 5.1	0.0 0.0	H 3.3 R 4 7	0.0 0.0	0.0 0.0	0.0 0.0	(s) 0.0 0.0	(s) (s)	R 47.1 R 44.3
2000	8.3	35.7	2.4	0.0	4.2	6.6	0.0	R 3.4 R 5.0 R 4.2	0.0	0.0	0.0	0.0	(s)	H 54 0
2005 2006	6.1 6.2	39.5 43.6	2.4 3.1 3.4	0.0 0.0	4.4 4.3	7.5 7.7	0.0 0.0	R 4.2	0.0 0.0	0.0 0.0	0.0 0.0	(s) (s)	(s) (s)	R 58.1 R 61.7
2007	6.2	41.2	3.7	0.0	3.0 1.2	6.6	0.0 0.0	R 4.4 R 4.0	0.0	0.0	0.0	(s)	(s)	R 58.5 R 58.6
2008 2009	6.2 6.2 6.3	43.4 38.3	3.8 3.4	0.0 0.0	1.2 3.4	5.0 6.9	0.0	H45	0.0 0.0	0.0 0.0	0.0 0.0	(s) R (s)	(s) (s)	R 56.1
2010	6.0	40.0	2.8	0.0	1.9	4.7	0.0	R 4.9	0.0	0.0	0.0	R (s) R (s)	(s) (s)	R 56.1 R 55.6
2011 2012	6.0 6.3	42.3 40.3	3.3 2.9	0.0 0.0	1.5 2.4	4.7 5.3	0.0 0.0	R 4.6 R 5.4 R 4.9	0.0 0.0	0.0 0.0	0.0 0.0	R (s) P 0.1	(s) (s)	R 57.7 R 57.4
2013	5.9	34.0	3.2	0.0	0.6	5.3 3.8	0.0	R 4.9	0.0	0.0	0.0	H05	(s)	R 49 1
2014 2015	5.9 9.9 11.0	32.0 30.2	3.7 3.8 3.4 2.8 3.3 2.9 3.2 2.9 3.3	0.0 0.0	0.7 0.7	3.7 4.1	0.0 0.0	R 5.3 R 5.4	0.0 0.0	0.0 0.0	0.0 0.0	R 0.5 R 0.5	(s) (s) 0.0 0.0	R 51.3 R 51.2
2016	9.6	28.2	4.6	0.0	0.0	4.6	0.0	R 5.1 R 5.0	0.0	0.0	0.0	H06	(s)	R 48.2 R 48.7
2017 2018	9.2 10.4	29.0 25.4	5.1 4.9	0.0 0.0	0.0 0.0	5.1 4.9	0.0 0.0	R51	0.0 0.0	0.0 0.0	0.0 0.0	R 0.5 R 0.5	(s) (s)	H 46 2
2019 2020	11.0	24.4 22.9	5.0 5.8	0.0	0.0	5.0 5.8	0.0	R 5.1 R 5.5	0.0 0.0	0.0	0.0	R 0.5 R 0.4	0.0 0.0	R 46.1 R 46.0
2021	11.4 11.3 11.3	22.9 25.5 26.8	4.9	0.0 0.0	0.0 0.0	4.9	0.0 0.0	11 5.5 R 5.2 5.2	0.0	0.0 0.0	0.0 0.0	R 0.5 0.5	0.0	H 46.0 R 47.4 48.5
2022	11.3	26.8	4.6	0.0	0.0	4.6	0.0	5.2	0.0	0.0	0.0	0.5	0.0	48.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Arizona

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	rs	Thousan	d barrels
1960	10	136	2,787	724	4,721	12.363	125	1,901	22,622	0	2,990	0	NA	NA
1965 1970	10 337 406	136 154 193	3,528 4,899	1,056 1,304	5,545 6,644	12,363 14,997 21,542	125 82 105	1,918 4,615	27,125 39,108	0	4,439 6,154	0	NA NA	NA NA
1971	424	213	5,240	1,324	6,769	22,957	534	3,872	40,696	Ö	6,643	0	NA	NA
1972	362 481	228 214	7,577 10,295	1,425 1,362	6,960 7,226	25,557 27,825	1,602 7,332	4,523 4,463	47,645 58 503	0	6,784 7,197	0	NA NA	NA NA
1973 1974	2.231	192	9.533	1,477	7,226 7,229	26,717	8,192	5,149	58,503 58,299	Ö	7,400	Ö	NA	NA
1975 1976	4,392 6,651	156 171	10,143 10,106	1,119 915	7,075 6,670	27,704 28,935	5,942 5,658	3,412 3,304	55,395 55,589	0	7,254 7,579	0	NA NA	NA NA
1977	8.383	167	12.682	945	7,173	30 765	7 786	3,791	63,141 64,593	Ö	6,597 7,021	Ö	NA	NA
1978 1979	7,456 11,689	175 173	14,384 11,972	1,141 1,739	7,417 7,832	32,431 32,091	4,959 4,926	4,260 4 187	64,593 62,748	0	7,021 7,256	0	NA NA	NA NA
1980	11,559	166	10,769	1,739 1,589	7,967	32,091 30,589	1,339	4,187 3,097	55,350	Ö	7,256 9,836	0	NA	NA
1981 1982	15,240 16,001	183 135	9,990 8,259	1,278 1,655	7,523 7,714	30,825 31,440	259 318	2,582 2,274	52,458 51,661	0	6,803 7,015	0	5 12	NA NA
1983	13,968	115	8.937	1,654 1,511	7 089	32,995	535	2.369	53 580	Ö	14.482	Ö	2	NA
1984 1985	15,406 16,364	121 131	9,597 10,109	1,511 1,722	8,022 7,154	34,592 36,148	544 176	3,277 3,320	57,543 58,629	0 1,130	15,679 13,987	0	0	NA NA
1986	14 150	101	11,177	1.704	7,697	37,844	41 122	3,356	61,818	9,976	14,461	Ö	Ö	NA
1987 1988	13,375 14,525	117 124	10,237 10,309	1,943 1,721 1,608	8,374 8,478	39,271 40,216	122 55	3,364 3,518	63,310 64,295	13,458 22 940	10,135 7,786	0	0	NA NA
1988 1989	14,525 16,871	146	10,309 11,205	1,608	8,157	40,216 40,648	55 152	3,518 3,377	64,295 65,148	22,940 7,850	7,786 7,877	Ō	Ö	NA
1990 1991	16,419 16,805	127 125	11,371 10,282	1,508 1,700	8,501 9,642	39,326 40,593	28 200	3,335 3,181	64,069 65,598	20,598 25,096	7,418 6,736	0	0	NA NA
1992	17.915	130	11.437	2.095	8.310	41.556	104	3,975	67.477	25.609	6,621 6,697	ŏ	Ŏ	NA
1993 1994	18,991 19,580	115 136	14,172 13,850	1,843 1,867	7,892 7,401	43,026 45,193	190 200	3,171 3,441	70,293 71,952	22,049 23,171	6,697 7,365	0	80 208	NA NA
1995	16,682	136 124	15,125	1,938 1,625	7,588	47,159	81 107	3,985	75,875	26,985	7,365 8,288	Ö	655	NA
1996 1997	16,793 18,206	124 135	17,387 17,911	1,625 1,204	7,922 7,978	49,417 48,884	107	3,386 3,660	79,843 79,651	28,840 29,314	9,214 12,049	0	553 549	NA NA
1998	19,013	159	18,668	1.345	8,677	52.661	14 20	5,036	86.406	30,301	10.970	Ō	423	NA
1999 2000	19,710 21,128	165 205	20,169 19,923	1,809 1,660	9,627 10,433	54,854 56,431	40 69	4,859 4,479	91,358 92,996	30,416 30,381	9,759 8,354	0	366 419	NA NA
2001 2002	20,830 19,955	241	21,591 19,928	1,650 1,509	9,914 10,344	58,506 61,230	252 29	3.444	95.357	28 724	7,624	Ö	579	2
2002 2003	19,955 20,059	251 273	19,928 20,915	1,509	10,344 10,650	61,230 61,827	29 0	4,395 4,330	97,436 99,545	30,862 28,581	7,427 7,075	0	330 319	4
2004	20.799	350	22,509	1,823 1,575	8,256	65,248	40	5,599	103,228	28,113	7,624 7,427 7,075 6,973	Ö	307	6
2005 2006	21,053 21,247	322 358	25,930 26,839	1,395 1,567	8,018 7,721	67,483 69,307	21 18	5,454 4,998	108,302 110,449	25,807 24,012	6,410 6,793 6,598	0	3,990 4,223	21 61
2007	21.902	393	26.330	1 569	6.612	70.010	22	4.931	109.473	26.782	6,598	Ö	4.705	83
2008 2009	23,285 21,193	399 370	26,034 23,972	2,524 2,057	6,763 4,686	65,760 63,417	0	4,309 3,560	105,390 97,692	29,250 30,662	7,286 6,427	0 30	5,691 5,696	83 71 75
2010	23,620	331 289	24,956 26,140	2 074	12,762 13,106	63,127 62,068	0	4,054 4,131	106,972 107,802	31,200 31,278	6,622 9,174	135 256	5,725	61 208
2011 2012	23,719 21,879	289	26,140 25,253	2,351 1,706	13,106 12,830	62,068 61,513	6	4,131 3,675	107,802 104,977	31,278 31,934	9,174 6,717	256 532	5,759 5,594	208
2013	23,479	332 332	25,253 25,294	1 969	12 965	62,910	0	3,487	106 626	31 431	6,717 5,915	450	5,594 5,830	12 112
2014 2015	23,132 20,047	307	24 789	2,058 1,966 2,256	13,205 13,327 13,287	63,340 66,657	0	3,566 3,678	106,958 110,223 R 114,258	32,321 32,526 32,377	6 1 1 8	468 452 542	6,214 6,935	334 14 489
2016	16,814	351 361	24,596 25,850	2,256	13,287	68,984	Ŏ	H 3 881	R 114,258	32,377	6,536 7,168	542	7.124	489
2017 2018	17,156 17,094	321 385	26,381 26,537	2,204 2,423	13,887 13,435	69,377 70,764	0	R 3,775 R 3,885	R 115,624 R 117,043	32,340 31,097	6,832 6,982	570 530	7,221 7,304	415 415
2019	13,157	469 500	28.004	2,423 2,805 2,585	13,435 13,959 9,816	71,328 63,610	0	H 4 188	R 120,283 R 107,958	31 920	6,982 6,204 6,424	554	7.496	415
2020 2021	8,551 8,693	500	28,043 R 29,588	2,585 2,742	9,816 12,715	63,610 69,780	0	R 3,905 R 4,517	R 107,958 R 119,342	31,552 31,630	6,424	644 1,600	6,747 7,450	415 415
2021	8,693 8,412	469 454	29,588	2,742 2,846	13,158	69,692	0	4,572	120,181	31,943	5,973 5,298	1,564	7,450 7,458	415
	-,		,	=,= 70		,		-,	.==,.01	,- 10	-,-30	.,	.,.50	

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Arizona (trillion Btu)

					Fossi	fuels						Fossil fuels (as commingled)	
						Petroleum						(as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	0.2	140.3	16.2	2.8	25.3	64.9	0.8	11.3	121.3	261.8	140.3	16.2	64.9
1965	7.0	166.1	20.6	4.0	30.1	78.8	0.5	11.8	145.7	318.8	166.1	20.6	78.8
1970 1971	8.6 8.9	204.4 225.9	28.5 30.5	5.0 5.0	36.4 37.1	113.2 120.6	0.7 3.4	29.6 24.7	213.3 221.2	426.3 456.0	204.4 225.9	28.5 30.5	113.2 120.6
1971	7.5	241.4	44.1	5.4	38.2	134.3	10.1	29.0	261 1	510.0	241.4	44.1	134.3
1973	9.9	226.3	60.0	5.2	39.9	146.2 140.3	46.1	28.6	325.9 325.8	562.1	226.3	60.0	146.2
1974	48.4	205.0	55.5	5.5	39.8	140.3	51.5	33.0	325.8	579.1	205.0	55.5	140.3
1975 1976	92.4 140.0	164.3 180.2	59.1 58.9	4.2 3.4	39.0 36.8	145.5 152.0	37.4 35.6	21.6 20.7	306.8 307.4	563.5 627.5	164.3 180.2	59.1 58.9	145.5 152.0
1977	179.8	176.4	73.9	3.5	39.6	161.6	48.9	23.6	351.2	707.4	176.4	<i>73.9</i>	161.6
1978	160.0	186.4	83.8	4.2	41.0	170.4	31.2	26.8	357.4	703.7	186.4	83.8	170.4
1979	246.2	180.6	69.7	6.5	43.4	168.6	31.0	26.7	345.8	772.6	180.6	69.7	168.6
1980 1981	245.0 319.4	174.0 192.2	62.7 58.2	5.9 4.8	43.9 41.6	160.7 161.9	8.4 1.6	19.6 16.3	301.3 284.4	720.2 796.1	174.0 192.2	62.7 58.2	160.7 161.9
1982	336.2	142.3	48.1	6.1	42.6	165.2	2.0 3.4	14.5	278.5	757.0	142.3	48.1	165.2
1983	295.4	142.3 120.4	48.1 52.1	6.2	42.6 39.1	165.2 173.3	3.4	15.1	278.5 289.2	705.0	142.3 120.4	48.1 52.1	165.2 173.3
1984	324.9	126.8	55.9 58.9	5.6	44.2	181.7	3.4	21.1	311.9	763.6	126.8	55.9 58.9 65.1	181.7
1985 1986	342.0 295.9	137.3 105.1	58.9 65.1	6.4 6.4	39.4 42.6	189.9 198.8	1.1 0.3	21.4 21.5	317.1 334.6	796.4 735.6	137.3 105.2	58.9 65.1	189.9 198.8
1987	282.9	121.3	59.6	7.3	46.4	206.3	0.8	21.6	342.0	746.1	121.4	59.6	206.3
1988	309.0	128.6	60.1	6.4	47.0	211.3	0.3	22.7	347.7	785.3	128.6	60.1	211.3
1989 1990	353.1 343.4	151.5 130.8	65.3 66.2	6.0 5.6	45.3 47.3	213.5 206.6	1.0 0.2	21.6 21.4	352.7 347.2	857.3 821.4	151.5 130.8	65.3 66.2	213.5 206.6
1991	347.3	128.2	59.9	6.3	53.7	213.2	1.3	20.3	354 7	830.1	128.2	59.9	213.2
1992	369.7	133.8	66.6	7.7 6.7	46.4 44.2	213.2 218.3 224.2	0.7	25.6	365.2 379.3	868.8	133.8	66.6	213.2 218.3
1993	389.8	118.2	82.5	6.7	44.2	224.2	1.2	20.3	379.3	887.2	118.2	82.5	224.5
1994 1995	402.4 342.9	139.7 127.9	80.6 88.0	6.9 7.2	41.9 43.0	234.9 243.1	1.3 0.5	22.1 25.7	387.7 407.6	929.8 878.4	139.7 127.9	80.6 88.0	235.6 245.4
1996	342.8	125.3	101.2	6.0	44.9	255.6	0.5	21.7	430.0	898.1	125.3	101.2	257.5
1997	369.9	137.6	104.2	4.5	45.2	252.5 272.5	0.1	23.5	430.1	937.6	137.6	104.2	254.4
1998	386.8	161.1	108.6	5.1	49.2	272.5	0.1	32.5	468.1	1,016.0	161.1	108.6	274.0
1999 2000	403.3 432.8	167.8 208.1	117.4 115.9	6.9 6.3	54.6 59.2	284.1 292.0	0.3 0.4	31.4 28.8	494.5 502.7	1,065.6 1,143.6	167.8 208.1	117.4 115.9	285.4 293.5
2001	424 0	244.4	125.6	6.2	56.2	302.3	1.6	22.1	514.1	1.182.5	244.4	125.6	304.3
2002	406.5	255.2	116.0	5.8	58.6	317.2	0.2	28.4	526.2	1,187.9	255.2	116.0	318.3
2003	406.5	275.7	121.7	6.8	60.4	320.2	0.0	28.0	537.1	1,219.3 1,340.0	275.7	121.7	321.3
2004 2005	425.4 428.4	356.3 329.3	131.0 150.9	5.9 5.3	46.8 45.5	338.0 336.5	0.3 0.1	36.5 35.5	558.4 573.8	1,340.0	356.3 329.3	131.0 150.9	339.0 350.4
2006	432.0	365.2	155.7	5.9 5.8	43.8	344.7 343.7	0.1	32.4	582.6	1,379.8	365.2	155.7	359.4
2007	438.5	402.0	155.7 152.3	5.8	37.5	343.7	0.1	32.0	582.6 571.4	1,411.9	402.0	155.7 152.3	360.0
2008 2009	458.7 413.3	410.0 377.5	150.5 137.3	9.5 7.7	38.3 26.6	316.0 303.1	0.0 0.0	27.8 23.0	542.2 497.7	1,410.9 1,288.4	410.0 377.5	150.5 138.5	335.8 322.8
2009	457.9	336.2	143.3	8.0	72.4	300.0	0.0	26.1	549 7	1,266.4	336.2	130.5	322.0 319.9
2011	459.9	293.1	148.8	9.0	74.3	294.3	(s)	26.6	553.0 538.5	1,306.0	293.1	144.1 150.8	314.2
2012	420.6	339.0	143.5	6.6	72.7	292.0	0.0	23.7	538.5	1,298.1	339.0	145.6	311.4
2013 2014	454.9 447.8	340.4 315.9	141.9 139.2	7.6 7.9	73.5 74.9	298.1 298.9	0.0 0.0	22.3 22.7	543.4 543.6	1,338.6 1,307.3	340.4 315.9	145.8 142.9	318.3 320.4
2014	385.8	365.3	137.8	7.6	74.9 75.6	313.0	0.0	23.5	EE7 /	1 308 5	365.3	141.7	337.1
2016	323.9	373.9	143.4	8.7	75.3	313.0 324.0 325.5	0.0	23.5 R 24.9	576.2	1,274.0 R 1,252.5	373.9	148.8	348.7
2017	334.5	334.6	146.8	8.5	78.7	325.5	0.0	R 23.9	576.2 583.3 R 590.3 R 607.2 R 544.5	H 1,252.5	334.6	151.9	350.6
2018 2019	331.5 257.7	400.5 484.2	148.0 156.5	9.3 10.8	76.2 79.1	332.2 334.3	0.0 0.0	24.6 R 26.6	R 607 2	1,322.3 R 1,349.2	400.5 484.2	152.8 161.3	357.6 360.3
2020	156.8	513.5	156.2	9.9	79.1 55.7	297.9	0.0	H 24.8	R 544.5	H 1 214 A	484.2 513.5	161.4	321.4
2021	160.3	485.0	R 168.1	10.5	72.1	326.5	0.0	R 28.6	<sup>□</sup> 604.5	<sup>H</sup> 1,249.8	485.0	R 170.5	352.4
2022	154.0	468.0	170.0	10.9	74.6	325.9	0.0	28.9	609.0	1,231.1	468.0	172.4	351.9

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Arizona (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 10.2	4.0	NA	NA	NA	NA	4.0	0.0	NA	NA	R 14.2	R -2.6	-0.1	R 273.4
1965	0.0	R 15.1	3.7	NA	NA NA	NA NA	NA	3.7	0.0 0.0	NA NA	NA NA	R 18.8	R 25.3 R 51.4 R 51.6 R 58.0 R 57.7 R 41.8	-0.1	R 362.9 R 502.9
1970 1971	0.0 0.0	R 21.0 R 22.7	4.3 4.5 4.8	NA NA	NA NA	NA NA	NA NA	4.3 4.5	0.0	NA NA	NA	R 25.3 R 27.2 R 27.9	R 51.4	-0.2 -0.2	H 534.6
1972	0.0	R 23.1	4.8	NA	NA	NA	NA	4.8	0.0	NA	NA	R 27.9	R 58.0	-0.5	H 595.5
1973 1974	0.0 0.0	R 24.6 R 25.3	4.6 4.8	NA NA	NA NA	NA NA	NA NA	4.6 4.8	0.0 0.0	NA NA	NA NA	R 29.1 R 30.0	H 57.7	-0.3	R 648.6 R 650.8
1974	0.0	H 24 8	4.6 5.4	NA NA	NA NA	NA NA	NA NA	4.6 5.4	0.0	NA NA	NA NA	R 30.2	R 40.5	-0.1 (s)	R 634.1
1976	0.0	R 25.9 R 22.5	5.8 6.8	NA	NA	NA	NA	5.8	0.0	NA	NA	R 31 7	_ R 8.7	-0.1	R 667.8
1977	0.0	H 22.5	6.8	NA	NA	NA	NA	6.8	0.0	NA	NA	R 29.3 R 31.1	R 40.5 R 8.7 R -16.7 R -10.3 R -44.0 R -42.2 R -78.2 R -84.7 R -51.4 R -69.9 R -67.8	-0.1	R 720.0
1978 1979	0.0 0.0	R 24.0 R 24.8	7.1 8.3	NA NA	NA NA	NA NA	NA NA	7.1 8.3	0.0 0.0	NA NA	NA NA	<sup>□</sup> 31.1 R 33.0	R -10.3	-0.1 -0.1	R 724.4 R 761.5
1980	0.0	R 33 6	17.8	NA	NA	NA	NA	17.8	0.0	NA	NA NA	R 33.0 R 51.4 R 44.7	R -42.2	-0.1	R 729.3
1980 1981	0.0	H 23.2	21.5	(s)	NA	NA	0.0	21.5	0.0	NA	NA NA	R 44.7	R -78.2	(s) (s)	R 729.3 R 762.6
1982 1983	0.0	R 23.9 R 49.4	21.6	(s)	NA NA	NA	0.0	21.6	0.0	NA NA	NA 0.0	R 45.6 R 73.1	H -84.7	(s)	R 717.8
1984	0.0 0.0	R 53.5	23.6 25.1 25.6	(s) 0.0	NA NA	NA NA	0.0 0.0	23.6 25.1	0.0 0.0	0.0	0.0	H 78 6	R -69 9	(s) (s)	R 726.6 R 772.4 R 813.9
1985	12.0	R 47 7	25.6	0.0	NA	NA	0.0	25.6	0.0	0.0	0.0	R 73 3	R -67.8	0.0	R 813.9
1986 1987	105.5	R 49.3 R 34.6	24.0 17.5	0.0	NA	NA	0.0	24.0	0.0	0.0	0.0 0.0	R 73.4 R 52.1 R 44.9	R -92.1 R -100.3 R -191.5 R -74.4 R -169.3 R -211.6 R -224.0 R -195.1 R -160.5 R -138.5 R -181.4 R -201.6 R -291.6 R -198.0	(s) (s)	R 822.4 R 838.5
1987	140.5 243.2	R 26.6	17.5	0.0 0.0	NA NA	NA NA	0.0 0.0	17.5 18.4	0.0 0.0	0.0 0.0	0.0	R 44 Q	R -100.3	(S) (S)	11 838.5 R 882.0
1989	83.1	R 26 9	15.6	0.0	NA	NA	0.0	15.6	0.2	3.5	0.0	H 46 2	R -74.4	(s)	R 882.0 R 912.1
1990	218.0	R 25.3 R 23.0	13.7	0.0	NA	NA	0.0	13.7	0.2	3.6 3.7	0.0	R 42.9 P 41.5	R -169.3	(s) (s)	H 013 N
1991 1992	263.1 268.1	R 23.0	14.6 15.1	0.0 0.0	NA NA	NA NA	0.0 0.0	14.6 15.1	0.2 0.2	3.7 3.7	0.0 0.0	R 41.5	n -211.6 B 224.0	0.4 (s)	R 923.4 R 954.6
1992	231.6	R 22.0	13.1	0.0	NA NA	NA NA	0.0	13.1	0.2	3.7	0.0	R 40 7	R -191 4	(S)	R 968 2
1993 1994	242.2	R 22.9 R 25.1	13.6 13.5	0.3 0.7	NA	NA	0.0	13.9 14.2	0.2 0.2	3.8 3.8	0.0 0.0	R 40.7 R 43.4	R -195.1	(s) (s)	R 968.2 R 1,020.3
1995	283.5	R 28.3	14.4	2.3	NA NA	NA	0.0	16.7	0.2	3.8 3.9	0.0 0.0	R 49.0 R 50.2	H -160.5	1.1	R 1,020.3 R 1,051.6 R 1,112.7
1996 1997	302.9 307.6	R 31.4 R 41.1	12.8 14.5	1.9 1.9	NA NA	NA NA	0.0 0.0	14.7 16.4	0.2 0.2	3.9	0.0	R 61.6	R -181 4	(s) 0.4	11 1 125 /
1998	317.9	H 37 4	10.8	1.5	NA	NA	0.0	12.3	0.2	3.8 3.7	0.0	H 53 7	R -201.6	(s)	H 1 196 0
1999 2000	317.8	R 33.3 R 28.5	11.2	1.3 1.5	NA	NA	0.0	12.5 13.4	0.3	3.6 3.3	0.0 0.0	R 49.6 R 45.5	R -198.0	(s) 0.0 0.2	R 1,235.0 R 1,289.9
2000 2001	316.8 300.0	R 28.5	11.9	1.5 2.0	NA (s)	NA NA	0.0 0.0	13.4	0.3 0.3	3.3 3.1	0.0	R 39.8	R 220.1	0.2 0.2	T 1,289.9
2002	322.3	R 25.3	8.4 8.2	1.1	(s)	NA	0.0	10.4 9.3	0.3	2.9	0.0	R 37 8	R -249.8	(s)	R 1,302.3 R 1,298.2
2003	297.9	R 24.1 R 23.8	8.5	1.1	(s)	NA	0.0	9.6	0.2	2.9 R 2.7	0.0	R 36.7 R 36.4	R -220.1 R -249.8 R -234.2 R -297.5	(s) -0.1	H 1 310 6
2004 2005	293.2 269.3	<sup>H</sup> 23.8 R 21.9	8.6	1.1 13.8	(s) 0.1	NA NA	0.0 0.0	9.7 25.3	0.3 0.3	R 2.6 R 2.5	0.0 0.0	<sup>R</sup> 36.4 R 50.0	H -297.5	0.3 -0.3	R 1,372.4 R 1,411.8
2005	250.6	R 23.2	11.4 10.4	14.6	0.1	NA NA	0.0	25.3 25.4	0.3	R 2.5	0.0	R 51 4	R -230.0	-0.6	H 1 150 0
2007	280.9	R 23.2 R 22.5	11.1	16.3	0.4	NA	1.6	29.4	0.3	R 2.5 R 2.6	0.0	R 51.4 R 54.9	R -280.6	(s) -0.9	R 1,433.6
2008	305.7	R 24.9	13.6	19.7	0.4	NA	3.0	36.7	0.4	R 2.9 R 3.0 R 3.4	0.0	R 64.8	H -346.9	-0.9	H 1,433.6
2009 2010	320.7 326.1	R 21.9 R 22.6	6.3	19.7 19.8	0.4 0.3	NA NA	3.0 2.7	29.5 30.1	0.3 0.3	R 3.0	R 0.1 R 0.5	R 54.9 R 56.9	R -312.7	-0.8 0.2	R 1,350.5
2011	327.3	H 31 3	6.3 7.2 6.1	20.0	1.1	0.0	2.6	29.8	0.3	R 4.5	Rng	H 66.8	R -272.2	1.5	R 1,350.5 R 1,403.9 R 1,429.4
2012 2013	334.6 328.4	R 22 9	5.9 6.4	19.4 20.2	0.1	0.0	1.8	27.2	0.3	R 8.3	R 1.8 R 1.5	R 60 6	R -290.0	0.1	R 1,403.4
2013 2014	328.4 338.0	R 20.2 R 20.9	6.4	20.2 21.6	0.6 1.8	0.0 0.0	(s) 2.4	27.2 33.3	0.3 0.3	n 13.3	n 1.5	R 62.5 R 73.8	n -310.5	(s) 0.2	<sup>D</sup> 1,419.1
2014	340.2	R 22.3	7.6 R 8.6	21.6	0.1	0.0	2.4	R 35 3	0.3	R 4.5 R 8.3 R 13.3 R 17.7 R 19.7	R 1.6 R 1.5	H 79 2	R -297.5 R -238.8 R -223.2 R -280.6 R -346.9 R -312.7 R -272.2 R -277.2 R -290.0 R -310.5 R -286.5	0.2	R 1,403.4 R 1,419.1 R 1,422.8 R 1,439.7
2016	338.6 338.2	R 24.5 R 23.3	7.9	24.7	2.6	0.0	2.4	R 37.6 R 37.9	0.3	R 21.6 R 26.7	R 1.8 R 1.9	R 85.9 R 90.2	R -236.8 R -218.4	0.4	R 1,462.2
2017	338.2	H 23.3	H 8.0	25.1	2.2	0.0	2.6	H 37.9	0.3	H 26.7	R 1.9 R 1.8	R 90.2 R 94.6	H -218.4	0.2	R 1,462.2 R 1,462.7 R 1,474.5
2018 2019	325.1 333.3	R 23.8 R 21.2	R 9.7 R 11.3	25.5 26.1	2.2 2.2	0.0 0.0	2.6 1.2	R 40.0 R 40.8	0.3 0.3	R 28.6 R 30.1	H 1 Q	R 94.6 R 94.3	R -267.7 R -283.7 R -201.1 R -198.6	0.1	
2020	329.6	R 21.9	<sup>H</sup> 8.6	23.5	2.2	0.0	0.0	n 34.3	0.3	R 33.2	n 2.2	H 92.0	R -201.1	(s) (s)	R 1,435.3 R 1,481.3
2021	R 329.9	R 20.4	R 8.2	25.9	2.2	0.0	0.0	R 36.3	0.3	n 37.8	H 5.5	R 100.3	R -198.6	(s) (s)	R 1,481.3
2022	333.1	18.1	9.4	26.0	2.2	0.0	0.0	37.6	0.3	41.1	5.3	102.4	-139.7	(s)	1,526.9

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Arizona

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	10	82	2,785	724	4,721	12,363	84	1,901	22,578	0					6,138			
1970	5	134	4,897	1,304	6,644	21,542	86	4,615	39,088	13					13,769			
1980	643 660	116 102	10,333	1,589	7,967	30,589	154	3,097	53,728	15					26,762			
1990 2000	720	1102	11,170 19,567	1,508 1,660	8,501 10,433	39,326 56,431	18 23	3,335 4,479	63,859 92,594	0					41,470 61,130			
2005	720	104	25,853	1,395	8,018	67,483	21	5,454	108,224	0					69,391			
2006	741	110	26,708	1,567	7,721	69,307	17	4,998	110,317	0					73,253			
2007	713	113	26,245	1,569	6,612	70,010	22	4,931	109,389	0					77,193			
2008 2009	628	115	25,946	2,524	6,763	65,760	0	4,309	105,301 97,588	0					76,268			
2009	431 536	108 106	23,868 24.838	2,057 2,074	4,686 12,762	63,417 63,127	0	3,560 4,054	97,588 106.855	0					73,433 72,833			
2011	503	108	26,044	2,351	13,106	62,068	6	4,131	107,706	0					74,944			
2012	418	103	25,177	1,706	12,830	61,513	0	3,675	104,901	0					75,063			
2013	181	109	25,214	1,969	12,965	62,910	0	3,487	106,545	0					75,662			
2014	221	101	24,680	2,058	13,205	63,340	0	3,566	106,850	0					76,298			
2015 2016	235 175	103 105	24,503 25.752	1,966 2,256	13,327 13,287	66,657 68,984	0	3,678 R 3,881	110,131 R 114,161	0					77,349 78,238			
2016	227	97	26,274	2,204	13,887	69,377	0	R 3.775	R 115,517	0					77,646			
2018	280	100	26,442	2,423	13,435	70,764	Ö	R 3.885	R 116,949	0					78,346			
2019	282	113	27,879	2,805	13,959	71,328	0	R 4,188	R 120,159	0					77,929			
2020	277	111	27,964	2,585	9,816	63,610	0	R 3,905	R 107,879	0					81,960			
2021	273	112	R 29,503	2,742	12,715	69,780	0	R 4,517	R 119,257	0					81,220			
2022	260	115	29,850	2,846	13,158	69,692	0	4,572	120,119	0					84,197			
									Trillion	Btu								
1960	0.2	85.2	16.2	2.8	25.3	64.9	0.5	11.3	121.1	0.0	3.8	NA	NA	NA	20.9	231.2		R 273.4
1970	0.1	142.0	28.5	5.0	36.4	113.2	0.5	29.6	213.2	R (s)	4.3			NA	47.0		R 96.2	R 502.9
1980	13.1	121.4	60.2	5.9	43.9	160.7	1.0	19.6	291.3	R 0.1	17.8			NA	91.3	R 535.0	R 194.2	R 729.3
1990 2000	13.3 16.0	105.8 110.7	65.1 113.9	5.6 6.3	47.3 59.2	206.6 293.5	0.1 0.1	21.4 28.8	346.0 501.8	0.0	13.7 11.9			3.6 3.3	141.5 208.6	624.1 852.6	R 288.9 R 437.4	R 913.0 R 1,289.9
2005	16.0	106.5	150.4	5.3	45.5	350.4	0.1	35.5	587.1	0.0	10.7			2.4	236.8	R 959.9	R 451.8	R 1,411.8
2006	16.3	112.0	155.0	5.9	43.8	359.4	0.1	32.4	596.5	0.0	9.9			2.5	249.9	987.8	R 470.2	R 1,458.0
2007	15.3	115.7	151.8	5.8	37.5	360.0	0.1	32.0	587.2	0.0	10.9			R 2.6	263.4	R 997.4	R 469.7	R 1,467.2
2008	12.9	118.4	150.0	9.5	38.3	335.8	0.0	27.8	561.4	0.0	11.9			R 2.8	260.2		R 462.2	R 1,433.6
2009	8.7	109.8	137.9	7.7	26.6	322.8	0.0	23.0	518.0	0.0	4.6			R 3.0		R 898.0	R 453.3	R 1,351.3
2010 2011	10.8 10.0	108.3 109.2	143.4 150.3	8.0 9.0	72.4 74.3	319.9 314.2	0.0 (s)	26.1 26.6	569.7 574.5	0.0	5.2 3.7			R 3.4 R 4.2	248.5 255.7	R 948.9 R 960.3	R 455.5 R 470.1	R 1,404.4 R 1,430.4
2011	8.7	105.4	145.2	6.6	74.3	314.2	0.0	23.7	559.5	0.0	3.1			R 5.1	256.1	R 940.1	R 465.3	R 1,405.5
2012	4.3	111.9	145.3	7.6	73.5	318.3	0.0	22.3	567.0	0.0	3.9			R 6.1	258.2	R 951.8	R 470.6	R 1,422.3
2014	5.2	104.3	142.2	7.9	74.9	320.4	0.0	22.7	568.1	0.0	4.0	2.4		R 7.1	260.3	R 951.6	R 473.0	R 1,424.7
2015	5.4	107.5	141.2	7.6	75.6	337.1	0.0	23.5	584.9	0.0	R 4.7			R 8.0	263.9	R 977.3	R 466.3	R 1,443.6
2016	4.1	109.4	148.3	8.7	75.3	348.7	0.0	R 24.9	605.8	0.0	R 4.0	2.4		R 8.8	266.9	R 1,001.9	R 463.1	R 1,465.0
2017 2018	5.3	102.0 104.1	151.3 152.3	8.5	78.7 76.2	350.6 357.6	0.0	R 23.9 24.6	R 612.9	0.0	R 4.9 R 6.2	2.6 2.6		R 9.9 R 11.1	264.9 267.3	R 1,002.8 R 1,018.2	R 462.8 R 458.8	R 1,465.6 R 1,477.1
2018	6.5 6.6	116.5	160.6	9.3 10.8	76.2 79.1	360.3	0.0	R 26.6	620.0 R 637.4	0.0	R 7.5			R 12.2	267.3 265.9	R 1,047.5	R 448.1	R 1,495.7
2019	6.5	113.7	161.0	9.9	55.7	321.4	0.0	R 24.8	R 572.7	0.0	R 5.1	0.0		R 13.3	279.6	R 991.3	R 447.0	R 1,438.3
2021	6.4	115.6	R 170.1	10.5	72.1	352.4	0.0	R 28.6	R 633.6	0.0	R 5.1	0.0	0.3	R 15.0	277.1	R 1,053.1	R 429.7	R 1,482.8
2022	6.0	119.1	172.1	10.9	74.6	351.9	0.0	28.9	638.4	0.0	6.3	0.0	0.3	17.1	287.3		453.9	1,528.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

l Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Arizona

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	0	27	47	354	0	402				1.355			
1965 1970	Ŏ	27 25 30	59 98	354 648	9	715				1,355 2,230 4,327			
1970	Ö	30	98	749	68	915				4,327			
1975 1980 1985	0	38 30 29	216	484	77	777				7.138			
1980	, 0	30	2 12	586 853	0	588 868				9,637 12,249			
1985	(s)	29	12	853	3	868				12,249			
1990	(s)	30 27 35 36 36 38 38 35 38 39	9	688	(s) 2	698				15,378 18,036			
1995 2000	1	27	6	866	2	874				18,036			
2000	(s)	35	4	1,115 770	1	1,120 778				24,844 30,544 32,367			
2005 2006	(8)	36	3	836	2	841				30,5 <del>44</del> 32,367			 
2007	(s)	38	2	783	(s)	786				34,437			
2008	(0)	38	2	1,346	(s)	1,349				33 236			
2008 2009 2010	Ŏ	35	3	1,270	(s)	1,274				33,236 32,847 32,448			
2010	Ö	38	3	1,191	(s)	1,194				32,448			
2011 2012	0	39	3	1,381	(s)	1,384				33,079 32,923			
2012	0	35	4	812	(s)	816				32,923			
2013	0	40	2	1,033	(s)	1,035				33,104 32,346 33,167			
2014 2015	0	32	2	1,063 913	(s)	1,066				32,346			
2015	0	40 32 35 35 33 33 42	1	913	(s)	914				33,167			
2016 2017	0	35	1	1,045 1,024	(s)	1,046 1,026				33,691 34,251 34,660			
2017	0	33	<u> </u>	1,024	(S)	1,299				34,231			
2019	0	42	(s)	1,444	(s)	1,444				34,720			
2020	0	42	4	1,309	(s)	1,313				38,707			
2021	Ŏ	40	2	1,328	(s)	1,330				37,130			
2022	0	42	2	1,244	(s)	1,246				38,368			
							Trillion Btu						
1960	0.0	28.4	0.3	1.4	0.0	1.6	2.8	NA	NA	4.6	37.4	R 9.3 R 15.0 R 30.2 R 49.7	R 46.7
1965	0.0	27 1	0.3	2.5	(s)	2.9	2.6	NA	NA NA	7.6	40.2	R 15.0	R 55.1 R 83.3 R 120.8
1965 1970 1975	0.0	31.4 39.8	0.6	2.5 2.9 1.9	(s) 0.4	2.9 3.8 3.6	3.0	NA	NA	14.8	53.0	R 30.2	R 83.3
1975	0.0	39.8	1.3	1.9	0.4	3.6	3.4	NA	NA	24.4	71.1	R 49.7	R 120.8
1980	0.0	30.9	(s) 0.1	22	0.0	2.3 3.4 2.7	8.8	NA	NA	32.9	74.8	H 69.9	R 144.7 R 174.9 R 205.4 R 231.0 R 314.8 R 363.5 R 368.1 R 380.2 R 371.5 R 360.9 R 363.0 R 371.2 R 361.7
1985 1990 1995	(s)	29.9 31.3 27.9	0.1	3.3 2.6 3.3	(s)	3.4	14.8	NA	NA	41.8	89.9	_H 84.9	R 174.9
1990	(s)	31.3	0.1	2.6	(s)	2.7	8.2	(s)	3.6	52.5	98.3	H 107.1	H 205.4
1995	(s)	27.9	(s) (s)	3.3	(s)	3.4	8.2	(s)	3.8	61.5	104.9	n 126.1	n 231.0
2000 2005	(s)	35.1	(S)	4.3	(s)	4.3 3.0	9.5	(s)	3.3	84.8 104.2	137.0	" 1//.8 B 400.0	" 314.8 B 050.5
2005	(S)	36.6	(s) (s) (s)	3.0	(s) (s)	3.0	8.3	(S)	2.4	104.2	154.6	1198.9 B 007.0	" 353.5 B acc 4
2006 2007 2008	(S) (S)	36.7 39.3 39.5	(8)	3.2 3.0	(S)	3.2 3.0 5.2 4.9 4.6	7.4 8.2	(S) (S)	2.5	110.4 117.5 113.4	160.3 R 170.6 R 170.0	R 207.6	R 380.1
2007	0.0	39.5	(s)	5.2	(s)	5.0	9.1	(8)	R 2.8	117.3	R 170.0	R 201 4	R 371 5
2009	0.0	35.4	(s)	4.9	(s)	4.9	2.9	(s)	R 2.9	112.1	R 158 2	R 202 8	R 360.9
2009 2010	0.0	35.4 38.4	(s) (s) (s)	4.6	(s)	4.6	3.1	(s)	R 3.2	112.1 110.7	R 158.2 R 160.0	R 202.9	R 363.0
2011	0.0	39.1 35.7 40.7	(s)	5.3	(s)	5.3 3.1 4.0	3.0 2.5 3.3		2.5 2.6 R 2.8 R 2.9 R 3.2 R 3.5 R 3.9	112.9 112.3 112.9	R 163.8	R 207.5	R 371.2
2012	0.0	35.7	(s) (s) (s)	5.3 3.1	(s)	3.1	2.5	(s) 0.1	R 3.9	112.3	R 157.6	R 204.1	R 361.7
2013	0.0	40.7	(s)	4.0	(s)	4.0	3.3	0.1	n 4 4	112.9	R 165.4	R 205.9	R 371.3
2014	0.0	33.4	(s)	4.1	(s)	41	3.3	0.1	R 5.0	1104	R 163.8 R 157.6 R 165.4 R 156.3 R 162.3 R 165.4 R 165.8	H 200.5	H 356 8
2015	0.0	36.0 36.6	(s) (s) (s) (s)	3.5 4.0	(s)	3.5 4.0 3.9	3.9	0.1	R 5.7 R 6.6	113.2 115.0	H 162.3	H 200.0	R 362.3 R 364.8 R 369.9
2016	0.0	36.6	(s)	4.0	(s)	4.0	R 3.2	0.1	R 7.6	115.0	11 165.4 B 165.0	1199.4 B 204.4	11 364.8 B 260.0
2017	0.0 0.0	34.3	(S)	3.9 5.0	(S) (S)	3.9	1.3.0	0.1 0.1	'' /.6 Ros	116.9	" 105.8 B 170.6	H 204.1	11 309.9 R 275 6
2018 2019	0.0	36.5 43.4	(s) (s)	5.0 5.5	(S) (S)	5.0 5.5	4.3 R 5 /	0.1	R 8.5 R 9.5	118.3 118.5	R 172.6 R 182.4	R 100 7	R 375.6 R 382.0
2019	0.0	43.4 42.6	(6)	5.0		5.5 5.1	R 3.4	0.1	R 10 4	110.0	R 102.4	R 211 1	R 404 3
2020 2021	0.0	41.2	S	5.0 5.1	(s) (s)	5.1	R 3.1	0.1	R 11.7	132.1 126.7	R 193.2 R 187.8	R 84.9 R 107.1 R 126.1 R 177.8 R 198.9 R 207.8 R 209.6 R 201.4 R 202.8 R 202.9 R 207.5 R 204.1 R 205.9 R 200.5 R 200.0 R 199.4 R 204.1 R 203.0 R 199.7 R 211.1 R 196.4	R 384.2
2022	0.0	42.6 41.2 43.5	(s) (s) (s)	5.1 4.8	(s)	5.1 5.1 4.8	4.3 R 5.4 R 3.1 R 3.1 A 3.1	0.1	R 10.4 R 11.7 14.0	130.9	197.6	206.8	R 404.3 R 384.2 404.4
			\=/		(=/								

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Arizona

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet	'		Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowati		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	0	25	106	113	0	80	30	348	NA			NA	3 302			
1965	Ö	25 19	131	207	2	89 137	39 17	494	NA			NA	3,302 3,044			
1970 1975	0	23 33	220 485	239 154	12 14	146 177	31 83	648 913	NA NA			NA NA	4,690 7,162			
1980 1985	0	33 27	485 280 463	187 272	0	179 140	0	647 877	NA NA			NA	9,122 12,295			
1990	(s)	25 28	456	220	2	257	(s) 0	935	NA 0			NA (s)	16,058			
1995 2000	`4 (s)	28	354 867	276 356	1 3	35 37	0	667 1,263	0			(s) (s)	18,562 24,311			
2005	(S)	32 32 33	473	229	2	40	0	744	0			(S) 1	27,468			
2006 2007	1	33	458 641	206 212	2 2	43 45	0	711 900	0			2	28,626 30,475			
2008	Ó	33 33	1,226	428	(s)	45	0	1,699	ő			8	30,162			
2009 2010	0	32 32 33 33	868 1,200	215 309	1	113 146	0	1,197 1,655	0			16 55	29,386 28,943			
2011	ŏ	33	1,166	377	(s)	126	Ö	1,669	Ö			204	29,512			
2012 2013	0	32 33	1,145 1,017	351 384	(s) (s)	109 126	0	1,606 1,527	0			304 436	29,692 30,039			
2014	ŏ	33 30	1,025	455	(s)	43	Ö	1,527 1,524	Ö			506	29,290			
2015 2016	0	31 34	1,089 869	427 631	(s) (s)	1,789 1,789	0	3,305 3,288	0			524 493	29,284 29,564			
2017	ŏ	31	873	646	(s)	1,804	Ō	3,324	ŏ			659	29,681			
2018 2019	0	32 35	787 684	629 900	(s) (s)	1,834 1,844	0	3,250 3,429	0			744 776	29,684 29,415			
2020	ŏ	32 33	593	880	(s)	1,857	Ö	3,330	Ŏ			862	29,128			
2021 2022	0	33 36	R 930 1,038	941 855	(s) (s)	1,875 1,965	0	R 3,746 3,859	0			953 871	29,990 31,507			
	-		,,,,,,		(-)	,			lion Btu			-	- ,			
1960	0.0	26.2	0.6	0.4	0.0	0.5	0.2	1.8	NA	0.1	NA	NA	11.3	39.3	R 22.7	R 62.0
1960 1965	0.0 0.0	26.2 20.7	0.8	0.8	(s) 0.1	0.7	0.2 0.1	2.4	NA NA	(s) 0.1	NA NA	NA NA	10.4	39.3 33.5	R 22.7 R 20.4 R 32.8	R 54.0 R 76.1
1970 1975	0.0 0.0	24.0 34.3	1.3 2.8	0.9 0.6	0.1	0.8 0.9	0.2 0.5	3.2 4.9	NA	0.1	NA	NA	16.0 24.4	43.3 63.7	H 49 9	H 113.6
1980 1985	0.0 (s)	28.7 26.5	1.6 2.7	0.7 1.0	0.0 (s)	0.9 0.7	0.0	3.3 4.5	NA NA	0.2 0.4	NA NA	NA NA	31.1 41.9	63.4 73.3	R 66.2 R 85.2	R 129.6 R 158.6
1990	(s)	29.3	2.7	0.8	(s)	1.3	(s) 0.0	4.9	0.0	0.9	(s) (s)	(s)	54.8	89.9	R 111 a	H 201 7
1995 2000	0.1 (s)	29.3 32.5	2.1 5.0	1.1 1.4	(s) (s)	0.2 0.2	0.0 0.0	3.3 6.6	0.0 0.0	1.1 1.7	(s)	(s) (s)	63.3 82.9	97.2 123.7	R 129.8 R 173.9	R 226.9 R 297.7
2005	(s)	32.6	2.8	0.9	(s)	0.2	0.0	3.8	0.0	1.4	(s) 0.1	(s)	93.7	131.7	R 178.9	R 310 5
2006 2007	(s) (s)	33.4 33.5	2.7 3.7	0.8 0.8	(s) (s)	0.2 0.2	0.0 0.0	3.7 4.8	0.0 0.0	1.3 1.4	0.1 (s)	(s) (s)	97.7 104.0	R 136.1 R 143.7	R 183.7 R 185.4	R 319.9 R 329.2
2008	0.0	33.5 33.4	7.1	1.6	(s)	0.2	0.0	9.0	0.0	1.4 0.5	(s)	R (s)	102.9	1/6 8	R 185.4 R 182.8	H 320 6
2009 2010	0.0 0.0	32.8 32.5	5.0 6.9	0.8 1.2	(s) (s)	0.6 0.7	0.0 0.0	6.4 8.9	0.0 0.0	0.5 0.5	(s) (s)	R 0.1 R 0.2	100.3 98.8	R 140.0 R 140.8	R 181.4 R 181.0	R 321.4 R 321.8
2011	0.0	33.1	6.7	1.4	(s)	0.6	0.0	8.8	0.0	0.5	(s)	R n z	100.7	R 1/3 8	R 195 1	R 328 9
2012 2013	0.0 0.0	32.2 33.7	6.6 5.9	1.3 1.5	(s) (s)	0.6 0.6	0.0 0.0	8.5 8.0	0.0 0.0	0.4 0.4	(s) (s)	R 1.0 R 1.5	101.3 102.5	R 143.5 R 146.1	R 184.1 R 186.8	R 327.5 R 333.0
2014	0.0	31.4	5.9	1.7	(s)	0.2	0.0	7.9	0.0	0.4	(s)	R 1 7	99.9	R 1/1 /	R 181 6	R 323.0
2015 2016	0.0 0.0	31.9 35.4	6.3 5.0	1.6 2.4	(s) (s)	9.0 9.0	0.0 0.0	17.0 16.5	0.0 0.0	0.6 0.6	(s) (s)	R 1.8 R 1.7	99.9 100.9	R 151.2 R 155.1	R 176.5 R 175.0	R 327.7 R 330.1
2017	0.0	32.6	5.0	2.5	(s)	9.1	0.0	16.6	0.0	0.6	(s)	Roo	101.3	R 153.4	H 176 9	R 330.3
2018 2019	0.0 0.0	33.1 35.8	4.5 3.9	2.4 3.5	(s) (s)	9.3 9.3	0.0 0.0	16.2 16.7	0.0 0.0	R 0.6 0.8	(s) (s)	R 2.5 R 2.6	101.3 100.4	n 153.8 R 156.2	R 173.8 R 169.2	n 327.6 R 325.5
2020	0.0	32.5	3.4	3.4	(s)	9.4	0.0	16.2	0.0	0.7	(s)	H 2.9	99.4	R 151.7	H 158.9	H 310.6
2021 2022	0.0 0.0	34.4 36.8	5.4 6.0	3.6 3.3	(s) (s)	9.5 9.9	0.0 0.0	R 18.4 19.2	0.0 0.0	0.7 0.8	(s) (s)	R 3.3 3.0	102.3 107.5	R 159.2 167.3	R 158.7 169.8	R 317.9 337.1
			- 0.0	0.0	(=)		0.0		0.0	- 0.0	(9)	5.0		.07.0		

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Arizona

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	10 4	14 55	1,227 1,545	222	515 437	27 20	1,008 1,224	3,000	0				NA	1,481 3,331			
1965 1970	4	55	1,545 1,387	161 253	437 456	20 55	1,224 3,879	3,387 6,031	0 13				NA NA	3,331 4,751			
1970	133	58 51	3.113	430	440	102	2,696	6,781	13				NA NA				
1980	643	38	3,570	739	309	154	2.469	7.241	15				NA	8,003			
1985 1990	1,915 660	17 18	1,799 2,768	505 545	404 503	31 18	2,815 2,783	5,554 6,617	15 0				NA (a)				
1995	657	28	3,590	745	410	69	3,504	8,317	0				(s) (s)	11,992			
2000	720	21	4,222	167	339	23	3,910	8,660	Ö				(s)	11,975			
2005 2006	719 740	17 18	4,921 4,542	193 292	1,048 1,220	21 17	4,956	11,138	0				(s)	11,379			
2006	740	19	4,342	392	1,075	22	4,520 4,476	10,591 10,265	0				(S)	12,259 12,281			
2008	628	20	6,043	481	1,049	0	3,866	11,440	ŏ				1	12,869			
2009	431	18	4,608	369	997	0	3,175	9,149	0				2				
2010 2011	536 503	19	4,999 5.711	539 557	871 876	0	3,397 3,472	9,806 10.622	0			==	6 28				
2012	418	22 23 22	5,663 5,731	506	933	Ö	3,096	10,199	ő				47	12,448			
2013	181	22	5,731	502	973	0	2,916	10,123	0				70	12,519			
2014 2015	221 235	22 20	5,201 4,419	462 498	938 1,703	0	2,918 _ 3,021	9,519 _ 9,641	0				83 147	14,662 14,892			
2016	235 175	20	5.305	429	1,739	0	H 3 254	R 10 727	0				170				
2017	227	19	5,757	406	1,747	0	H 2 170	H 11 070	0				17	13,706			
2018 2019	280 282	19 19	4,832 5,199	388 360	1,757 1,763	0	R 3,263 R 3,558	R 10,240 R 10,881	0				24 14	13,994 13,783			
2020	277	19	5,199	312	1,834	0	R 3 336	R 10 762	0				14				
2021	273	20	5,059	328	1,759	0	H 3,687	R 10,832	0				14	14,089			
2022	260	20	5,113	664	1,932	0	3,705	11,413	0				32	14,312			
									Trillion Bt								
1960 1965	0.2 0.1	14.2 59.4	7.1	0.8	2.7 2.3	0.2 0.1	6.6	17.4	0.0 0.0		NA NA	NA NA	NA NA	5.1 11.4	37.9	R 10.2 R 22.4	R 48.1
1965	0.1	61.2	9.0 8.1	0.6 0.9	2.3	0.1	8.1 25.6	20.1 37.3	R (s)	1.1 1.3	NA NA	NA NA	NA NA		92.0 E 116.1	R 33 2	R 114.3 R 149.4
1975	2.6	53.4	18.1	1.5	2.3	0.6	17.6	40.2	R (s) R (s)	1.9	NA	NA	NA	23.4	R 121.7	H 47.8	<sup>rt</sup> 169.5
1980	13.1	39.5	20.8	2.6	1.6	1.0	16.1	42.1 33.1	R 0.1 R 0.1	8.9	NA 0.0	NA NA	NA NA		R 131.0 R 128.4	R 58.1 R 58.6	R 189.1 R 187.0
1985 1990	38.8 13.3	17.3 19.0	10.5 16.1	1.7 1.9	2.1 2.6	0.2	18.5 18.2	39.0	0.0	10.4 4.6	0.0	0.2	(s)		110.4	Rega	R 180 3
1995	13.1	28.8	20.9	2.6	2.1	0.4	23.0	49.0	0.0	5.0	0.0	0.2	(s)	40.9	137.1	R 83.8	R 220.9
2000	16.0	21.5	24.6	0.6	1.8	0.1	25.6	52.6	0.0	0.7	0.0	0.2	(s)	40.9	131.9	R 83.8 R 85.7 R 74.1	R 217.6
2005 2006	15.9 16.3	17.4 18.8	28.6 26.4	0.7 1.0	5.4 6.3	0.1 0.1	32.7 29.7	67.5 63.5	0.0 0.0		0.0 0.0	0.2 0.2	(S)	38.8 41.8	140.9 141.8	11 74.1 R 78.7	R 215.0 R 220.5
2007	15.3	19.9	24.9	1.3	5.5	0.1	29.7 29.4	61.2	0.0	1.3	1.6	0.2	(s)	41.9	141.4	R 78.7 R 74.7	R 220.5 R 216.2
2008	12.9	20.7	34.9	1.6	5.4	0.0	25.3	67.2	0.0	1.3	3.0	0.3	(s)	43.9	149.4	H 78 0	H 227.4
2009 2010	8.7 10.8	18.3 19.6	26.6 28.9	1.2 2.1	5.1 4.4	0.0 0.0	20.8 22.3	53.7 57.6	0.0		3.0 2.7	0.2 0.2	R (S)	38.2 39.0	123.5 131.7	R 69.1 R 71.6	R 192.7 R 203.2
2011	10.0	22.0	33.0	2.1	4.4	(s)	22.8	62.3	0.0	0.3	2.6	0.2	R (s) P 0.1	42.1	R 139.7	R 77.5	R 217.2
2012	8.7	23.1	32.7	1.9	4.7	(s) 0.0	20.3	59.7	0.0	0.3	1.8	0.2	R 0.2	42.5	R 136 5	R 77 2	R 217.2 R 213.6
2013 2014	4.3 5.2	22.7 23.2	33.0 30.0	1.9 1.8	4.9 4.7	0.0 0.0	19.0 19.0	58.8 55.4	0.0		(s) 2.4	0.2 0.2	R 0.2 R 0.3	42.7 50.0	R 129.4 R 137.1	R 77.9 R 90.9	n 207 2
2014	5.2 5.4	23.2	30.0 25.5	1.8	4.7 8.6	0.0	19.0 19.7	55.4 55.6	0.0	0.3	2.4	0.2	R 0.5	50.0	H 136.8	R 89.8	R 228.0 R 226.6
2016	4.1	20.6	30.5	1.6	8.8	0.0	21.2	62.2	0.0	0.3	2.6 2.4	0.2	R 0.5 R 0.6	51.1	H 141.4	R 88 6	H 230.1
2017	5.3	20.1	33.1	1.6	8.8	0.0	R 20.4	63.9	0.0		2.6	0.2	R 0.1	46.8	R 140.3	R 81.7 R 82.0	R 222.0
2018 2019	6.5 6.6	19.9 19.2	27.8 29.9	1.5 1.4	8.9 8.9	0.0	21.0 R 23.0	59.2 R 63.2	0.0		2.6 1.2	0.2 0.2	R 0.1 R (s)	47.7 47.0	R 137.7 138.8	R 79 3	R 219.7 R 218.1
2020	6.5	19.6	30.4	1.2	9.3	0.0	R 21.5	R 62.4 63.2	0.0	1.3	0.0	0.2	R (s) R (s) R (s)	48.2	R 138.3	R 77.0	R 215 2
2021	6.4	20.6	29.2	1.3	8.9	0.0	23.9	63.2	0.0	1.3	0.0	0.2	R (s)	48.1	139.9	R 74.5	R 214.4
2022	6.0	20.1	29.5	2.5	9.8	0.0	23.9	65.7	0.0	1.3	0.0	0.2	0.1	48.8	142.3	77.1	219.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

A Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Arizona

						Po	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
1960	(s)	16	699	1,404	34	4,721	193	11,759 14,423	17	18,829	0			
1965 1970	(s) (s)	18 24	699 478 427	1,404 1,790	40 63	4,721 5,545	193 206 229	14,423	0	22,482 31,494	0			
1970 1975	(s)	24 17	427 358	3,192 4,756	63 51	6,644 6,995	229	20,940 27,087	0	31,494 39,514	0			
1980	(s) 0	21	281	6,480	51 78 92	7,967	267 347	30,100	0	45,253	0			
1980 1985	Ō	19	184	7,624	92	7,154	316	35,604	Ō	50,974	Ō			
1990 1995	0	25 19	194 139	7,936 11,068	55 51	8,501 7,588	355	38,566 46,714	0	55,608 65,899	0			
2000	0	21	204	14,474	23	10,433	339 362	56,056	0	81,551	0			
2005	ő	19	188	20 456	203	8,018	305	66,394	Ŏ	95.564	Ŏ			
2006	0	23 22	177	21,703 21,303	233 181	7,721	298 307	68,043	0	98,175	0			
2007 2008	0	22 24	145 156	21,303 18,674	181 269	6,612 6,763	307 285	68,890 64,665	0	97,439 90,814	0			
2008	0	23	127	18,389	203	4,686	256 256	62,308	0	85,968	0			
2010	Ō	17	186	18,637	203 35	12,762	470	62,109	Ö	94,200	Ō			
2011	0	15	205	19,164	36 37	13,106	454	61,066	0	94,029	0			
2012 2013	0	14 14	167 139	18,365 18,464	3/	12,830 12,965	411	60,471 61,811	0	92,281 93,860	0			
2013	0	16	205	18,452	51 78	13,205	432 442	62,359	0	94,742	0			
2015	Ö	17	167	18,994	128	13,327 13,287	489	63,166	Ŏ	96,270	6			
2016	0	16	150	19,577	151	13,287	489 R 477 R 439	65,457	0	R 99,099	7			
2017 2018	0	14 14	167 191	19,643 20,822	128 107	13,887 13,435	R 439	65,825 67,174	0	R 100,089 R 102,159	8 8	 		
2018	0	18	207	21,995	107	13,435	R 424	67,721	0	R 104 405	11			
2020	ő	18	183	22 087	83	9,816	R 386	59,918	Ō	R 92,474	11			
2021	0	19	168 174	R 23,512	145 82	12,715	R 423 450	66,146	0	R 103,349 103,600	11			
2022	U	18	1/4	23,697	82	13,158		65,795	0	103,600	10			
								llion Btu						
1960 1965	(s) (s)	16.5	3.5 2.4	8.2 10.4	0.1 0.2	25.3 30.1	1.2	61.8	0.1 0.0	100.2	0.0 0.0	116.7 139.4	0.0 0.0	116.7 139.4
1965	(S) (S)	19.4 25.4	2.4	18.6	0.2	36.4	1.2 1.4	75.8 110.0	0.0	168.8	0.0	194.1	0.0	194.1
1975	(s)	17.9	1.8	27.7	0.2	38.6	1.6	142.3	0.0	120.1 168.8 212.2	0.0	230.1	0.0	230.1
1980	0.ó	22.3	1.4	37.7	0.3	43.9	2.1	158.1	0.0	243.6	0.0	265.9	0.0	265.9
1985	0.0	19.4	0.9	44.4	0.4	39.4	1.9	187.0	0.0	274.1	0.0	293.4 325.6	0.0	293.4
1990 1995	0.0 0.0	26.1 19.3	1.0 0.7	46.2 64.4	0.2 0.2	47.3 43.0	2.2 2.1	202.6 243.1	0.0 0.0	299.5 353.5	0.0 0.0	325.6 372.8	0.0 0.0	325.6 372.8
2000	0.0	21.7	1.0	84.2	0.1	59.2	2.2	291.5	0.0	438.2 512.8	0.0	459.9	0.0	459.9
2005	0.0	19.9	0.9	119.0	0.8	45.5	1.9	344.7	0.0	512.8	0.0	532.8	0.0	459.9 532.8
2006 2007	0.0 0.0	23.0	0.9 0.7	125.9	0.9 0.7	43.8	1.8	352.8 354.2	0.0	526.1 518.2	0.0 0.0	549.5 541.7	0.0 0.0	549.5
2007 2008	0.0	23.0 24.8	0.7	123.2 107.9	1.0	37.5 38.3	1.9 1.7	334.2	0.0 0.0	480.0	0.0	541.7 505.2	0.0	541.7 505.2
2009	0.0	23.4	0.6	106.2	0.8	26.6	1.6	317.1	0.0	452.9	0.0	476.3	0.0	476.3
2010	0.0	17.8	0.9	107.6	0.1	72.4	2.8	314.7	0.0	498.6	0.0	516.4	0.0	516.4
2011 2012	0.0 0.0	15.1 14.4	1.0 0.8	110.6	0.1 0.1	74.3 72.7	2.8	309.2 306.1	0.0 0.0	498.0 488.2	0.0 0.0	513.0 502.6	0.0 0.0	513.0 502.6
2012	0.0	14.4	0.8	105.9 106.4	0.1	72.7 73.5	2.5 2.6	312.8	0.0	488.2 496.2	0.0	502.6 510.9	0.0	510.9
2014	0.0 0.0	16.2	1.0	106.3	0.3	74.9	2.7 3.0	315.5	0.0	500.7	0.0	516.9 527.0	0.0	516.9
2015	0.0	18.2	0.8	109.4	0.5	75.6	3.0	319.4	0.0	508.7	(s)	527.0	(s)	527.0
2016 2017	0.0 0.0	16.9 14.9	0.8 0.8	112.7 113.1	0.6 0.5	75.3 78.7	2.9 R 2.7	330.9 332.6	0.0 0.0	R 523.2 528.4	(s)	540.0 543.3	(s) R (s)	540.1 543.4
2017 2018	0.0	14.9	1.0	119.9	0.5 0.4	78.7 76.2	26	332.6 339.5	0.0	528.4 539.6	(S) (S)	543.3 _ 554.1	R (s)	543.4 554.2
2019	0.0	18.1	1.0	126.7	0.4	79.1	2.6	342 1	0.0	551.9	(s)	R 570.1	0.1	570.1
2020	0.0	19.0	0.9	127 1	0.3	79.1 55.7	2.6 2.3 R 2.6	302.7	0.0	489.1 R 546.9	(s)	508.1	0.1	570.1 508.2
2021	0.0 0.0	19.3 18.6	0.8 0.9	R 135.5 136.6	0.6 0.3	72.1 74.6	H 2.6 2.7	334.0 332.2	0.0 0.0	<sup>H</sup> 546.9 548.6	(s) (s)	R 566.2 567.3	0.1 0.1	R 566.3 567.4
2022							9/	3377	0.0					

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Information Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Arizona

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousand	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	0	53	3	0	41	44	0	2,990		0	NA	NA	-15	
1965 1970	333 401	53 37	3	0	44 19	47	0	4,439		0	NA	NA	-15 -29 -51	
1970	4,259	59 18	1.653	0	5.756	20 7,410	0	6,141 7,240		0	NA NA	NA NA	-14	
1980	10,916	18 50	1,653 436	Ö	5,756 1,185	1,622	0	9,820		Ö	NA	NA	-41	
1985	14,448 15,758	42 24 22	211 200	0	145 10	357 210	1,130 20,598	13,972 7,418		0	0	0	0 -2	
1990 1995	16,021	24 22	107	0	12	119	26,985	7,416 8,288		0	0	0	336	
2000	20,408	96	357 78	Ō	46	402 78	30.381	8.354		0	0	0	47	
2005 2006	20,333 20,506	217 248	78 121	0	1	78 132	25,807 24,012	6,410 6,793		0	14 13	0	-80 -182	
2007	21,189	280	131 85 89	0	0	85	26.782	6.598		0	9	0	3	
2008	22,658	284	89	0	0	85 89	29,250	7,286		0	15	0	-263	
2009 2010	20,762 23,084	262 224	104 117	0	0	104 117	30,662 31,200	6,427 6,622		0	14 16	30	-231	
2010	23,004	181	96	0	0	96	31,278	9,174		0	81	135 256	69 427	
2012	21,461	229	96 76	Ö	Ö	96 76	31,934	6,717		Ö	951	532	17	
2013 2014	23,298 22,911	223 206	81 108	0	0	81 108	31,431 32,321	5,915 6,118		0	2,092 3,118	450 468	7 48	
2014	19,812	248	92	0	0	92	32,526	6,536		0	3,435	452	17	
2016	16,639	255	92 98 107	Ŏ	Ö	92 98	32,377	7,168		Ö	3,742	452 542	130 59	
2017	16,929	224	107	0	0	107	32,340	6,832		0	4,919	570	59	
2018 2019	16,814 12,875	285 356	95 124	0	0	95 124	31,097 31,920	6,982 6,204		0	5,127 5,262	530 554	34 -3	
2020	8,274	389	79	ŏ	ŏ	79	31,552	6,424		ő	5.825	644	-3	
2021	8,419	358 339	85 62	0	0	85 62	31,630	5,973		0	6,692	1,600	-3	
2022	8,152	339	62	U	0		31,943 Frillion Btu	5,298		0	7,027	1,564	-4	
			()					R 10.2						B os 7
1960 1965	0.0 6.9	55.1 39.5	(s) (s)	0.0 0.0	0.3 0.3	0.3 0.3	0.0 0.0	R 15.1	0.2 0.0	0.0 0.0	NA NA	NA NA	-0.1 -0.1	R 65.7 R 61.8
1970	8.5	62.4	(s) 9.6	0.0	0.1	0.1	0.0	R 21.0 R 24.7	0.0	0.0	NA	NA	-0.2	H Q1 R
1975	89.8	18.9	9.6	0.0	36.2	45.8	0.0	R 24.7	0.0	0.0	NA	NA	(s) -0.1	H 179.2
1980 1985	231.9 303.2	52.5 44.2	2.5 1.2	0.0 0.0	7.5 0.9	10.0 2.1	0.0 12.0	R 33.5 R 47.7	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0	-0.1 0.0	R 327.8 R 409.2
1990	330.2 329.7	25.0 22.7	1.2	0.0	0.1	1.2 0.7	218.0	R 25.3 R 28.3	0.0	0.0	0.0	0.0	(s) 1.1	R 599.7 R 666.0
1995	329.7	22.7	0.6	0.0	0.1	0.7	283.5	H 28.3	0.0	0.0	0.0	0.0	1.1	H 666.0
2000 2005	416.9 412.5	97.4 222.8	2.1 0.5 0.8	0.0 0.0	0.3 (s)	2.4 0.5	316.8 269.3	R 28.5	0.0 0.6	0.0 0.0	0.0 R (s) R (s) R (s)	0.0 0.0	0.2	R 862.2 R 927.3
2006	415.7	253.2	0.8	0.0	(s)	0.8	250.6	R 21.9 R 23.2	0.5	0.0	R (s)	0.0	-0.3 -0.6	R 943.4 R 1,013.7 R 1,069.3
2007	423.2	286.3	0.5 0.5	0.0	0.0	0.5 0.5	280.9	R 22.5 R 24.9	0.2	0.0	R (s)	0.0	(s) -0.9	R 1,013.7
2008 2009	445.8 404.5	291.6 267.7	0.5 0.6	0.0 0.0	0.0 0.0	0.5 0.6	305.7 320.7	R 21 Q	1.7 1.7	0.0 0.0	0.1 R (s)	0.0 R 0.1	-0.9 -0.8	R 1,016.6
2010	447.1	227.9	0.0	0.0	0.0	0.0	326.1	R 21.9 R 22.6	2.0	0.0	R (s) R 0.1	R 0.5	0.2	H 1.027.2
2011	449.9	183.9	0.6	0.0	0.0	0.6	327.3	R 31.3	2.4	0.0	Н 0.3	R 0.9	1.5	R 997.9
2012 2013	411.9 450.5	233.7 228.4	0.4 0.5	0.0 0.0	0.0 0.0	0.4 0.5	334.6 328.4	R 31.3 R 22.9 R 20.2	2.8 2.5	0.0 0.0	R 3.2 R 7.1	R 1.8 R 1.5	0.1	R 1,011.4 R 1,039.2
2013	442.7	211.6	0.6	0.0	0.0	0.5	338.0	H 20 a	3.6	0.0	R 10 6	R 1 6	(s) 0.2	H 1 029 8
2015	380.4	257.9	0.5 0.6	0.0	0.0	0.5	340.2	R 22.3	3.9	0.0	H 11.7	n 1.5	0.1	R 1,018.5 R 966.9
2016 2017	319.8 329.2	264.5 232.6	0.6 0.6	0.0 0.0	0.0 0.0	0.6 0.6	338.6 338.2	R 24.5	3.9	0.0 0.0	R 12.8	R 1.8	0.4 0.2	H 966.9 H 946.1
2017	329.2 325.0	232.6 296.5	0.5	0.0	0.0	0.5	338.2 325.1	R 23.8	3.1 3.5	0.0	R 16.8 R 17.5	R 1.9 R 1.8	0.2 0.1	R 993.8
2019	251.2	367.8	0.7	0.0	0.0	0.7	333.3	R 23.3 R 23.8 R 21.2 R 21.9	3.8	0.0	H 18 0	R19	(s)	R 997.8
2020	150.3	399.8	0.5	0.0	0.0	0.5	329.6 B 220.0	H 21.9	3.6	0.0	H 19 9	R 2.2	(s)	R 927.7
2021 2022	153.9 148.0	369.4 349.0	0.5 0.4	0.0 0.0	0.0 0.0	0.5 0.4	R 329.9 333.1	R 20.4 18.1	3.1 3.0	0.0 0.0	R 22.8 24.0	R 5.5 5.3	(s) (s)	R 905.4 880.9
	010	2 7010									•		1-7	

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Arkansas

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>9</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	's	Thousan	d barrels
1960	14	215	2 021	4 823	2 237	14 675	539	4 180	28 475	0	992	0	NA	NA
1960 1965 1970 1971 1972 1973 1974 1975 1976	14 6	215 277	2,021 2,828 5,462 5,494 7,957	4,823 5,599	2,237 2,094 2,204 2,292	14,675 17,922 22,457 23,752	539 453 935 2,957 5,643	4,180 5,437	28,475 34,332 47,835 51,820 59,511 65,988 65,907 63,752 70,255 77,359 76,095 64,599 55,174 53,145 52,081 52,767 49,005	0	992 1,080 2,160 1,804 1,644 4,252 4,271	0	NA NA NA	NA NA NA
1970	0 2	382 334 316	5,462	10,198 10,777	2,204	22,457	935 2.957	6,579 6,547	47,835 51.820	0	1.804	0	NA NA	NA NA
1972	2 97	316	7,957	12 020	2.181	25,732 25,732 26,924 27,005 27,611 29,095 29,778	5,643	5.969	59,511	0	1,644	0	NA	NA NA
1973 1974	97 115	328 290	9,892 10,310	10,790 9,905 9,467 9,716	2,012 2,031	26,924 27,005	9,593 10,532 9,086	6,777 6,123	65,988 65,907	361	4,252 4 271	0	NA NA	NA NA
1975	40	258	9,566 10,147	9,467	1.995	27,611	9,086	6.027	63,752	4.874	3,433 2,022 1,791 2,421 3,375 1,695 1,235	ő	NA	NA
1976	167 248	249 230	10,147 11,793		1,906 2,029	29,095	13 262	6,129	70,255	3,858 5,085	2,022	0	NA	NA NA NA
1977	1.273	221	12,289	9,035 6,759	1,920	29,776 30.615	17,043 17,218	6,881 7,295	77,359 76.095	5,065	2.421	0	NA NA	NA NA
1978 1979	1,273 1,796	251	12,289 14,558	9,035 6,759 5,040 4,847 3,763 4,082 4,106 3,172	1,920 1,921	29,776 30,615 24,833 26,490 26,306 25,946 25,993 27,334	17,843 17,218 11,552	7,295 6,694	64,599	5,220 3,873	3,375	Ö	NA	NA NA
1980 1981	2,076 5,914	274 265 227	10,686 13,103	4,847	2,035 1,747	26,490	4,981 2,611 1,749	6,135 5,615	55,174 53,145	7,833 9,075 7,482	1,695	0	NA 17	NA NA NA
1982	7 254	203	13,103	4.082	2 011	25,946	1.749	5,013	52.081	7.482	2.100	0	20	NA NA
1982 1983 1984	10,065 9,435	207	13,111 13,134 12,257	4,106	1,604 2,016	25,993	763 480	5,182 7,165 3,746	52,767	7,646 10,808	3,315 2,723 4,434 2,813 2,407 2,785 3,084 3,655 3,547	0	29 65	NA NA
1984	9,435 12,682	210	12,257 12,804	3,172	2,016	27,334	480 735	3,746	49,005	10,808 9,889	2,723	0	65 19	NA NA
1985 1986	12,849	196 199	11,696	3,803	2,030 1,919	27,900	735 926 265 355 370	3,226 2,990	49,075 49,234 49,224	8,876	2,813	0	0	NA NA NA
1987	12 066	170	11 642	3,503	2,063	28,575	265	3 175	49,224	11 369	2,407	0	0	NA
1988 1989	12,555 11,547	217 250	12,284 12,969	3,552 3,786	2,063 2,221 1,938	29,540 29,409	355 370	3,608 3,018	51,560 51,490	8,895 8,844	2,785 3,084	0	0	NA NA
1990 1991	12,092 12,261	232 209	12,585 12,352	3,463	1,693 1,792	28,997	228 145	2,805 2,442	49,771	11,282 12,662	3,655	ŏ	146	NA NA
1991	12,261	209	12,352	3,673 3,803 3,503 3,552 3,786 3,463 3,309 3,012 3,478 3,378 3,229 3,116	1,792	26,607 27,900 28,575 29,540 29,409 28,997 28,995 29,401 30,472 30,874 32,121 32,081 33,184 33,261 33,698	145	2,442	49,224 51,560 51,490 49,771 49,037 50,506 53,115 55,394 57,107 57,455	12,662	3,547	0	92	NA
1992 1993 1994	12,538 11,447 12,596	225 229 242	13,635 14,394 15,943	3,012	1,134 1,031 1,634	30.472	31 222	3,293 3,519	53,115	11,326 13,522 13,924	3,377 4.509	0	65 45	NA NA
1994	12,596	242	15,943	3,378	1,634	30,874	222 319	3,519 3,247	55,394	13,924	3,463	0	8	NA NA
1995 1996	13,540 14,816	253 268	17,007 16,848	3,229	1,179	32,121	219 197	3,351 3,679	57,107 57,455	11,658 13,357	3,218	0	9	NA NA
1997	14.068	260	17 950	3,068	1,534 1,539 1,528 4,575	33,184	40	3.770		14.208	3,377 4,509 3,463 3,218 2,797 3,516 3,117 2,694 2,370 2,548	0	0	NA NA
1998 1999	14,563	266	18,699 17,781	2,322	1,528	33,261	103	3,608 3,807	59,522	13,097	3,117	Ō	Ō	NA
2000	15,299 15,249	253 251	1/,/81 18.815	5,973 6,522	4,575 4,868	33,698	109	3,80 <i>7</i> 3,575	65,943 67,378	12,920 11,652	2,694 2,370	0	0	NA NA
2000 2001	15,547	253 251 228 242	18,815 20,897	6,152	1,036	33,297 33,246	1,543	3,575 3,425	59,522 65,943 67,378 66,300	11,652 14,781	2,548	ő	Ö	4
2002	15,547 14,587 14,726	242 247	21,682 22,712	4,047	794	34,103	226	5.096	65,947	14.559	3 436	0	0	6
2003 2004	14,726 15,733	247 215	23,356	3,068 2,322 5,973 6,522 6,152 4,047 3,211 3,470	4,868 1,036 794 822 722	34,103 34,343 34,628 34,498 34,560	109 302 1,543 226 570	4,274 3,405	65,947 65,932 66,769 66,182 66,260	14,689 15,450	2,655 3,643	0	0	5 10 35 101
2005 2006	14,399 14,979	214	24,418 23,624	2,705 2,767	1,251 1,183	34,498	264 223	3,046 3,903	66,182	13,690 15,233	3,083	Ö	28	35
2006 2007	14,979 16,028	234 226	23,624 24,072	2,767	1,183 1,226	34,560	223	3,903 3,743	66,260	15,233	1,551	0	26 83	101 137
2008	16,026	235	24,072 25.627	2,749 3,229	1,226	34,962 34,154 35,059 34,914 33,706	139 98	3,743 2.635	66,891 66,829 64,205	15,486 14,168	3,237 4.660	0	664	137
2009 2010 2011	15.292	235 244	25,627 21,791	2,932	1,085 800	35,059	118	2,635 3,504	64,205	15.170	4,193	Ō	1.732	117 124
2010	16,825 17,699	272	23,449 23,228	2,676	1,386 1,373	34,914 33,706	20 34	4,100 4,743	66,546 65,533 62,535	15,023 14,194	3,659	0	3,705 3,483	100 342
2012	17,099	296	21,190	2,447	1,421	33,732	13	4.139	62,535	15 493	2,936	0	3,463	383
2012 2013	17,240 18,980	272 284 296 282 268	21,832	2,329	1,343	33,201	13 20	4,172	62,897	11,945 14,478	3,083 1,551 3,237 4,660 4,193 3,659 2,958 2,198 2,655 2,640	0	3,420	719
2014	19,508 13,012	268 291	21,190 21,832 21,225 19,991	2,601 2 182	1,421 1,343 1,385 1,301 1,259	33,732 33,201 34,213 34,879	10	4,378 3,708	63,811 62,062	14,478 13,838	2,640 3,569	0	3,381 3,420 3,554 3,634	342 383 719 534 596 879 750
2015 2016 2017	14,267	310	19,691	1,753	1,259	36,191 36,087	ī	R 4,726	R 63,620	13,421	3,569 3,570 2,943 3,009 4,135	ő	3,750	879
2017	15,391	312	19,622 21,147	1,631	1.340	36,087	0	H 4,597	H 63,277	12.691	2,943	0	3,756	750
2018 2019	17,627 13,935	365	20,789	2,103	1,156 1,236	36,306	0	R 4.270	R 64.909	12,721 13,575	3,009 4.135	0	3,468 3,452	841 R 746
2020	9.350	330	20,691 R 20,559	2,116	932	35,460 36,306 33,703 36,050	3	R 4,289	R 61,734	15,063 13,556	4 531	Õ	3,098	779
2021 2022	12,427 12,067	361 365 330 353 389	<sup>H</sup> 20,559 20,653	2,749 3,229 2,932 2,676 2,447 2,040 2,329 2,601 2,182 1,753 1,631 2,163 2,308 2,116 2,105 2,001	932 998 1,104	36,050 35,602	0	4,376 3,708 R 4,726 R 4,597 R 4,175 R 4,270 R 4,289 R 4,521 4,573	62,535 62,897 63,811 62,062 R 63,620 R 63,277 R 64,102 R 64,909 R 61,734 R 64,233 63,932	13,556 14,324	4,029 3,469	0	3,098 3,458 3,708	779 R 534 476

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Arkansas (trillion Btu)

1													
-					Fossil							Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol a	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	0.4	222.2	11.8	18.5	12.0	77.1	3.4	25.4	148.1	370.6	222.2	11.8	77.1
1965	0.2	277.7	16.5	21.4	11.2	94.1	2.8	32.9	179.0	456.8	277.7	16.5	94.1
1970 1971	0.0 0.1	383.5 335.0	31.8 32.0	38.8 41.0	11.9	118.0	5.9 18.6	40.3 40.2	246.6 269.0	630.1	383.5 335.0	31.8	118.0
1971	0.1	335.0 317.6	32.0 46.4	41.0 45.7	12.4 11.8	124.8 135.2	35.5	36.8	311.3	604.0 629.0	335.0 317.6	32.0 46.4	124.8 135.2
1973	2.3	327.5	57.6	40.9	10.9	141.4	60.3	41.6	352.7	682.5	327.5	57.6	141.4
1974	2.3 2.7	290.1	60.1	40.9 37.4	11.0	141.9	60.3 66.2	37.6	354.2	646.9	290.1	60.1	141.9
1975	0.9	257.4	55.7	35.5	10.8	145.0 152.8	57.1	37.0	341.2 380.0	599.5	257.4	55.7	145.0 152.8
1976 1977	3.6 5.2	248.2	59.1 68.7	36.5 33.9	10.3 11.0	152.8	83.4 112.2	37.8 42.2	380.0	631.7	248.2	59.1 68.7	152.8
1977	5.2 22.8	234.4	08.7 71.6	33.9 25.3	10.4	156.4 160.8	112.2	42.2 44.7	424.4 421.1	664.1 664.8	234.4 220.9	71.6	156.4 160.8
1978 1979	22.8 31.7	220.9 255.0	71.6 84.8	25.3 18.8	10.4	160.8 130.4	108.2 72.6	41.7	421.1 358.9	645.6	220.9 255.0	84.8	160.8 130.4
1980	36.6	274.0	62.2	17.9	11.0	139 1	31.3	38.0	299.7	610.4	274.0	62.2	139.1
1981	101.9	265.0	76.3	13.9	9.5	138.2	16.4	34.7	289.0	656.0	265.1	76.3	138.2
1982 1983	125.2 177.5	227.4 211.7	76.4 76.5	15.0 15.2	10.9 8.7	136.3	11.0	32.0 43.0	281.6 284.7	634.2 673.9	227.4 211.7	76.4 76.5	136.3 136.5
1983	177.5 163.9	211.7 214.4	76.5 71.4	11.8	8.7 10.9	136.5 143.6	4.8 3.0	43.0 22.7	263.5	673.9 641.8	211.7	76.5 71.4	136.5 143.6
1985	219.8	199.3	74.6	13.7	11.0	139 8	4.6	20.1	263.7	682.9	199.3	74.6	139.8
1986	219.8 224.5	203.0	68.1	14.2	10.4	146.6 150.1	4.6 5.8 1.7	18.3	263.7 263.5 263.3	691.1	203.0 172.3	68.1	146.6
1987	211.0	172.3	67.8	13.1	11.3	150.1	1.7	19.4	263.3	646.7	172.3	67.8	150.1
1988	218.8 203.3	218.8	71.6	13.2	12.2	155.2 154.5	2.2 2.3	22.2	276.5 275.3	714.1	218.8	71.6	155.2 154.5
1989 1990	203.3 212.7	251.1 234.5	75.5 73.3	14.2 12.8	10.6	154.5 152.3	2.3 1.4	18.3 16.8	2/5.3 265.9	729.8 713.1	251.1 234.5	75.5 73.3	154.5 152.3
1991	215.9	212.7	72.0	12.2	9.2 9.7	152.3	0.9	14.9	262.0	690.6	212.7	73.3 72.0	152.3
1992	220.7	226.6	79.4	11.1	6.2	154.4	0.2	20.3	271 7	719.0	226.6	79.4	154 4
1993	200.4	232.7	83.8	12.8	5.7	158.8	1.4	21.9	284.4 297.3	717.5	232.7	83.8	159.0
1994	222.2	247.2	92.8	12.5	9.1	161.0	2.0	20.0	297.3	766.7	247.2	92.8	161.0
1995 1996	237.3 260.1	272.0 275.0	99.0 98.1	11.9 11.4	6.7 8.7	167.1 167.2	1.4 1.2	20.7 22.3	306.8 308.9	816.1 844.0	272.0 275.0	99.0 98.1	167.2 167.2
1997	246.8	264.0	104 5	11.3	8.7	172.7	0.3	22.9	320.4	831.2	264.0	104.5	172.7
1998	246.8 254.7	272.9	108.8	8.6	8.7	173.1	0.6	21.8	320.4 321.5	849.1	272.9	108.8	173.1
1999	267.0	257.7	103.5	22.2	25.9	175.3	0.7	23.0	350.6	875.2	257.7	103.5	175.3
2000	267.6	256.1	109.5	23.7	27.6	173.2	1.9	21.8	357.6	881.3	256.1	109.5	173.2
2001 2002	274.0 255.2	231.6 247.9	121.6 126.2	22.5 14.9	5.9 4.5	172.9 177.3	9.7 1.4	20.8 32.0	353.4 356.3	859.0 859.4	231.6	121.6 126.2	172.9 177.3
2002	253.7	254.6	132.2	11.9	4.7	178.5	3.6	26.6	357.3	865.6	247.9 254.6	132.2	178.5
2004	270.2	217.9	135.9	12.9	4.1	179.9	7.5 1.7	20.8	361.1	849.2	217.9	135.9	179.9
2005	247.2	216.6	142.1	10.0	7.1	179.0	1.7	18.4	358.3	822.1	216.6	142.1	179.1
2006 2007	256.9	240.9	137.1 139.2	10.2	6.7	179.1	1.4 0.9	24.2	358.7	856.5 864.4	240.9	137.1 139.2	179.2 179.8
2007	275.0 278.8	229.6 238.4	148.1	10.1 12.0	7.0 6.2	179.5 172.1	0.6	23.1 15.9	359.8 354.9	872.2	229.6 238.4	139.2 148.1	179.8 174.4
2009	264.1	248.1	124.8	10.8	4.5	172.5	0.7	21.7	335 1	847.3	248 1	125.9	178.5
2010	293.7	274.8	134.7	10.3	7.9	164.1	0.1	25.6	335.1 342.6	911.1	248.1 274.8	135.4	178.5 176.9
2011	306.1	288.9	132.2	9.4	7.8	158.6	0.2	29.8	338.0	933.0	288.9	134.0	170.7
2012	296.7 327.1	300.6	120.4	7.8	8.1	159.0	0.1	25.8	321.2 321.3	918.5	300.6	122.2	170.8
2013 2014	327.1 339.2	288.0 273.0	122.5 119.3	8.9 10.0	7.6 7.9	156.1 160.7	0.1 0.1	25.9 27.4	3∠1.3 325.3	936.4 937.5	288.0 273.0	125.8 122.3	168.0 173.1
2015	226.9	296.8	112.0	8.4	7.4	163.8	(s)	22.9	325.3 314.4	838.1	296.8	115.2	173.1 176.4
2016	246.4	315.6	109.0	6.7	7.1 7.6	169.9	(s) (s) 0.0	30.0	322.8 321.2	884.9	315.6 317.5	113.4 113.0	182.9
2017	267.6	317.5	108.7	6.3	7.6	169.3	0.0	29.3 R 26.5	321.2	906.3	317.5	113.0	182.3
2018 2019	304.1 239.8	366.9	117.9 116.1	8.3	6.6	167.1 171.4	0.0	n 26.5	326.4 B 220.5	997.5	366.9 371.4	121.8 119.7	179.2
2019 2020	239.8 162.0	371.4 335.4	116.1 _ 115.2	8.9 8.1	7.0 5.3	1/1.4 159.5	0.0	27.2 _ 27.3	11330.5 315.4	941.7 R 812.8	3/1.4 335.4	119./ 110 1	183.4 170.3
2021	216.1	360.5	R 116.8	8.1	5.7	170.0	(s) 0.0	R 28.5	326.4 R 330.5 315.4 R 327.5	<sup>R</sup> 904.1	360.5	119.1 R 118.5	182.1
2022	211.7	397.7	117.4	7.7	6.3	166.8	0.0	28.9	325.5	934.9	360.5 397.7	119.1	179.8

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Arkansas (continued) (trillion Btu)

Number   Property								Renewable en	ergy							
Total   Propose   Propos						Bior	nass							Net		
1965 0.0	Year	electric	electric			Biodiesel		and co-	Total <sup>f</sup>		Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of	net _	Total <sup>f</sup>
1977			R 3.4	37.4								NA	R 40.8	R 5.7		R 417.2
1977	1965 1970	0.0	R 7.4	35.1 34.3	NA NA	NA NA	NA NA	NA NA	35.1 34.3	0.0	NA NA	NA NA	<sup>n</sup> 38.8 R 41.6	R 20.1	0.0	R 691.9
1977	1971	0.0	R 6.2	34.7	NA	NA	NA	NA	34.7	0.0	NA	NA	R 40.8	R 37.5	0.0	R 682.4
1977	1972 1973	0.0	H 14 5	37.6		NA NA		NA NA	37.6		NA NA	NA NA	R 52.1	R 66.7	0.0	R 801.2
1977	1974	4.0	H 14.6	36.7	NA	NA	NA	NA	36.7	0.0	NA	NA	R 51.3	R 74.8	0.0	H 777 1
1978 57.1	1975 1976	53.7 42.6	□ 11./ R69	35.9 41.3				NA NA	35.9 41.3			NA NA	7 47.6 R 48 2	R 96.0		R 818 6
1982 82.9	1977	54.8	R 6.1	51.1	NA	NA	NA	NA	51.1	0.0	NA	NA	R 57.2	R 91.7	0.0	R 867.7
1982 82.9			R 11.5	45.8					45.8			NA	R 57.3	R 104.0	0.0	R 863.6
1982 82.9	1980	85.4	R 5.8	52.4	NA	NA	NA	NA	52.4	0.0	NA	NA	R 58.2	R 80.4	0.0	R 834.4
1992 118.6	1981 1982	100.1 82.9		55.3 55.6		NA NA			55.3 55.6		NA NA	NA NA	H 62 8	R -14.2	0.0	H 768.8
1992 118.6	1983	83.4	R <sub>11.3</sub>	60.4	0.1	NA	NA	0.0	60.5	0.0	NA	0.0	R 71.8	R -58.5	0.0	R 770 6
1992 118.6			R 15 1	63.0 62.9	0.2				63.2 62.9		0.0	0.0	72.5 R 78.1	R -97.5	0.0	R 768 5
1992 118.6	1986	93.9	R 9.6	61.8	0.0	NA	NA	0.0	61.8	0.0	0.0	0.0	R 71.4	R -117.4	0.0	R 739.0
1992 118.6			R 9.2	61.6 63.8									R 73.3	□-117.0 R <sub>-79.8</sub>	0.0	R 801 9
1992 118.6	1989	93.6	R 10.5	86.2	0.0	NA	NA	0.0	86.2	0.1	1.2	0.0	R 98 1	R -58.5	0.0	R 863.0
1992 118.6	1990 1991		H 12 1	/0.6 71.4	0.5 0.3			0.0	/1.1 71.7		1.3 1.3	0.0	H 85.0 R 85.2	R -90.5	0.0	R 818.1
1998 137.4	1992	118.6	R 11.5	76.3	0.2	NA	NA	0.0	76.5	0.1	1.3	0.0	R 89 4	R -79.4	0.0	R 847.5
1998 137.4	1993 1994	142.0 145.5	R 11 8	85.8 82.5	0.2 (s)	NA NA	NA NA	0.0	85.9 82.5	0.1 0.1	1.3 1.3	0.0	<sup>n</sup> 102.7 R 95.7	R -49.3	0.0	R 913.0
1998 137.4	1995	122.5	R 11.0	82 9	(s)	NA	NA	0.0	83.0	0.1	1.2	0.0	H 95 3	R -31.1	0.0	R 1,002.8
1998 137.4	1996 1997	140.3 149.1	R 12.0	87.8 86.9	(s) 0.0	NA NA			87.8 86.9	0.1 0.1	1.2 1.1	0.0	R 100 1	R -57.2	0.0	<sup>n</sup> 1,025.7 R 1 039 8
2006 199.0	1998	137.4	H 10 6	82.0	0.0	NA	NA	0.0	82.0	0.2	1.0	0.0	H 93 8	R -18.7	0.0	R 1,061.6
2006 199.0	1999 2000	135.0 121.5	R 9.2	82.1 83.5	0.0	NA NA	NA NA	0.0	82.1 83.5	0.2	0.9 0.8	0.0	n 92.5 R 92.5	R -19.5	0.0	<sup>n</sup> 1,083.3 R 1 124 7
2006 199.0	2001	154.4	R 8.7	66.8	0.0	(s)	NA	0.0	66.8	0.2	0.6	0.0	R 76.4	R <sub>-</sub> 10.9	0.0	ri 1 078 8
2006 199.0		152.0 153.1	Ro1	72.9 80.4					73.0 80.4	0.2	0.5 0.4	0.0	n 85.4 R 90.1	R -25.0		H 1 000 0
2006 199.0	2004		R 12 /	75.9	0.0	0.1	NA	0.0	75.9	0.3	0.2	0.0	R 88 9	R -30.0	0.0	R 1,069.2
2008	2005 2006	142.9 159.0	H E 2	81.2 84.1		0.2		(s)	81.5 84.8		0.1		R 90 5	n 37.4	0.0	H 1 102 1
2016 140.4 112.2 176.0 13.0 4.7 0.0 0.1 193.8 0.8 10.2 0.0 1106.9 11-95.2 0.0 11,037.1 2017 132.7 8 10.0 876.2 13.1 4.0 0.0 0.1 93.3 0.8 8 0.2 0.0 8 104.4 8 -99.9 0.0 8 1,043.5 2018 133.0 8 10.3 8 77.9 12.1 4.5 0.0 0.1 8 94.6 0.8 8 0.0 8 106.5 8 -133.7 0.0 8 1,033.3 2019 141.7 8 14.1 8 76.3 12.0 4.0 0.0 0.1 8 92.4 0.8 8 0.0 8 10.3 8 11.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 2021 8 141.4 8 13.7 8 13.0 12.0 2.9 0.0 0.1 8 71.0 0.8 8 10.8 8 1.2 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 10.0 8 10.0	2007	162.4	H 11 0	88.2	0.3	0.7	NA	(s)	89.2	0.5	0.1	0.0	H 100 8	R -18.8	0.0	H 1 100 0
2016 140.4 112.2 176.0 13.0 4.7 0.0 0.1 193.8 0.8 10.2 0.0 1106.9 11-95.2 0.0 11,037.1 2017 132.7 8 10.0 876.2 13.1 4.0 0.0 0.1 93.3 0.8 8 0.2 0.0 8 104.4 8 -99.9 0.0 8 1,043.5 2018 133.0 8 10.3 8 77.9 12.1 4.5 0.0 0.1 8 94.6 0.8 8 0.0 8 106.5 8 -133.7 0.0 8 1,033.3 2019 141.7 8 14.1 8 76.3 12.0 4.0 0.0 0.1 8 92.4 0.8 8 0.0 8 10.3 8 11.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 2021 8 141.4 8 13.7 8 13.0 12.0 2.9 0.0 0.1 8 71.0 0.8 8 10.8 8 1.2 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 10.0 8 10.0	2008	148.1 158.7	<sup>n</sup> 15.9 R 14.3	76.8 82.5	2.3	0.6 0.7	NA NA	(s)	79.8 89.2	0.6 0.7	0.1	0.0	<sup>n</sup> 96.3 R 104.3	R -34.3	0.0	<sup>n</sup> 1,082.2 R 1 019 3
2016 140.4 112.2 176.0 13.0 4.7 0.0 0.1 193.8 0.8 10.2 0.0 1106.9 11-95.2 0.0 11,037.1 2017 132.7 8 10.0 876.2 13.1 4.0 0.0 0.1 93.3 0.8 8 0.2 0.0 8 104.4 8 -99.9 0.0 8 1,043.5 2018 133.0 8 10.3 8 77.9 12.1 4.5 0.0 0.1 8 94.6 0.8 8 0.0 8 106.5 8 -133.7 0.0 8 1,033.3 2019 141.7 8 14.1 8 76.3 12.0 4.0 0.0 0.1 8 92.4 0.8 8 0.0 8 10.3 8 11.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 2021 8 141.4 8 13.7 8 13.0 12.0 2.9 0.0 0.1 8 71.0 0.8 8 10.8 8 1.2 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 10.0 8 10.0		157.0	R 12.5	88.7	12.8	0.5	NA	(s)	102.1	0.8	0.1	0.0	H 115 4	R -74.6	0.0	R 1,108.9
2016 140.4 112.2 176.0 13.0 4.7 0.0 0.1 193.8 0.8 10.2 0.0 1106.9 11-95.2 0.0 11,037.1 2017 132.7 8 10.0 876.2 13.1 4.0 0.0 0.1 93.3 0.8 8 0.2 0.0 8 104.4 8 -99.9 0.0 8 1,043.5 2018 133.0 8 10.3 8 77.9 12.1 4.5 0.0 0.1 8 94.6 0.8 8 0.0 8 106.5 8 -133.7 0.0 8 1,033.3 2019 141.7 8 14.1 8 76.3 12.0 4.0 0.0 0.1 8 92.4 0.8 8 0.0 8 10.3 8 11.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 2021 8 141.4 8 13.7 8 13.0 12.0 2.9 0.0 0.1 8 71.0 0.8 8 10.8 8 1.2 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 10.0 8 10.0	2011	148.5 162.4	H 10.1 R 7.5	91.6 89.7	12.1		0.0	0.1	105.6	0.7		0.0	B 111 0	H -82.9 R -127.8	0.0	H 1,115.1 R 1,065.0
2016 140.4 112.2 176.0 13.0 4.7 0.0 0.1 193.8 0.8 10.2 0.0 1106.9 11-95.2 0.0 11,037.1 2017 132.7 8 10.0 876.2 13.1 4.0 0.0 0.1 93.3 0.8 8 0.2 0.0 8 104.4 8 -99.9 0.0 8 1,043.5 2018 133.0 8 10.3 8 77.9 12.1 4.5 0.0 0.1 8 94.6 0.8 8 0.0 8 106.5 8 -133.7 0.0 8 1,033.3 2019 141.7 8 14.1 8 76.3 12.0 4.0 0.0 0.1 8 92.4 0.8 8 0.0 8 10.3 8 11.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 2021 8 141.4 8 13.7 8 13.0 12.0 2.9 0.0 0.1 8 71.0 0.8 8 10.8 8 1.2 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 10.0 8 10.0	2013	124.8	R 9.1	90.3	11.9	3.9	0.0		106.1	0.8	0.1	0.0	R 116.1	R -84.4	0.0	R 1,092.8
2016 140.4 112.2 176.0 13.0 4.7 0.0 0.1 193.8 0.8 10.2 0.0 1106.9 11-95.2 0.0 11,037.1 2017 132.7 8 10.0 876.2 13.1 4.0 0.0 0.1 93.3 0.8 8 0.2 0.0 8 104.4 8 -99.9 0.0 8 1,043.5 2018 133.0 8 10.3 8 77.9 12.1 4.5 0.0 0.1 8 94.6 0.8 8 0.0 8 106.5 8 -133.7 0.0 8 1,033.3 2019 141.7 8 14.1 8 76.3 12.0 4.0 0.0 0.1 8 92.4 0.8 8 0.0 8 10.3 8 11.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 2021 8 141.4 8 13.7 8 13.0 12.0 2.9 0.0 0.1 8 71.0 0.8 8 10.8 8 1.2 0.0 8 10.8 8 1.3 0.0 8 10.8 8 1.3 10.0 8 10.0			H 9.0 R 12.2	90.4 R 70.3				(s)	105.6 R os 2				R 108 2	H -96.1 R -47.6		H 1 0/2 E
2017 132.7	2016	140.4	H 12.2	R 76.0	13.0	4.7	0.0	0.1	R 93.8	0.8	R 0.2	0.0	R 106.9	R -95.2	0.0	R 1,037.0
2019 141.7 R 14.1 R 76.3 12.0 4.0 0.0 0.1 R 92.4 0.8 R 0.9 0.0 R 108.2 R -113.7 0.0 R 1,078.0 2020 157.3 R 15.5 R 58.2 10.8 4.2 0.0 0.1 R 73.3 0.8 R 1.3 0.0 R 90.8 R -50.3 0.0 R 1,010.8 2021 R 141.4 R 13.7 R 56.0 12.0 2.9 0.0 0.1 R 71.0 0.8 R 2.2 0.0 R 87.8 R -78.8 0.0 R 1,054.5 2022 149.4 11.8 56.7 12.9 2.6 0.0 0.1 72.2 0.8 3.4 0.0 88.2 -120.0 0.0 1,052.5	2017	132.7 133.0	H 10.0	H 77 Q	13.1	4.0 4.5			93.3 R 94.6		H 0.2 R 0.8		H 104.4	H -99.9 R -133.7		H 1,043.5 R 1 103.3
2020 157.3	2019	141.7	R 14.1	R 76.3	12.0	4.0	0.0	0.1	R 92 4	0.8	R 0.9	0.0	R 108.2	R <sub>-</sub> 113.7	0.0	H 1 079 0
2022 149.4 11.8 56.7 12.9 2.6 0.0 0.1 72.2 0.8 3.4 0.0 88.2 -120.0 0.0 1,052.5	2020	157.3 R 141.4	H 15.5 R 13.7	H 58 2		4.2			H 73.3 R 71.0		H 1.3 R 2 2		H 90.8 R 87 8	H -50.3 R -78 8		H 1 010 8
	2022	149.4				2.6			72.2					-120.0		1,052.5

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Arkansas

						Petroleum					Bior	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet	<u>'</u>		1	housand barrels	S	<u>'</u>		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	14	168	2,019	4,823	2,237	14,675	421	4,180	28,356	0					5,662			
1970	0	275	5,455	10,198	2,204	22,457	238	6,579	47,130	0					13,444			
1980 1990	302	215	10,506 12,444	4,847 3,463	2,035	26,490	1,875	6,135	51,889	0					26,499			
2000	256 382	200 217	18,748	6,522	1,693 4,868	28,997 33,297	214 9	2,805 3,575	49,616 67.019	0					27,365 41,611			
2005	368	165	24,346	2,705	1,251	34,498	34	3,046	65,880	0					46,165			
2006	365	163	23,576	2,767	1,183	34,560	4	3,903	65,993	0					46,636			
2007	399	163	24,009	2,749	1,226	34,962	69	3,743	66,758	0					47,055			
2008	388 298	171 161	25,583 21,727	3,229 2,932	1,085	34,154	44 41	2,635 3,504	66,730 64,063	0					46,135			
2009 2010	288	175	23,394	2,932	800 1,386	35,059 34,914	41	4,100	66,471	0					43,173 48,194			
2011	233	177	23,147	2,447	1,373	33,706	22	4,743	65,439	0					47,928			
2012	217	167	21,137	2,040	1,421	33,732	11	4,139	62,480	0					46,860			
2013	215	189	21,768	2,329	1,343	33,201	13	4,172	62,825	0					46,683			
2014	227	197	21,180	2,601	1,385	34,213	10	4,378	63,766	0					47,080			
2015 2016	197 200	181 174	19,893 19,619	2,182 1,753	1,301 1,259	34,879 36,191	1	3,708 R 4,726	61,964 R 63,548	0					46,465 46,188			
2017	198	185	19,539	1,631	1,340	36,087	0	R 4,597	R 63,194	0					46,086			
2018	175	208	21,091	2,163	1,156	35,460	0	R 4,175	R 64,046	0					49,603			
2019	172	205	20,711	2,308	1,236	36,306	0	R 4,270	R 64,831	0					48,093			
2020	149	194	20,603	2,116	932	33,703	0	R 4,289	R 61,643 R 64,138	0					45,851			
2021 2022	150 141	204 200	R 20,464 20,538	2,105 2,001	998 1,104	36,050 35,602	0	R 4,521 4,573	63,817	0					48,663 48,998			
			-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	, -			,,,,,,	Trillion	Btu								
1960	0.4	173.8	11.8	18.5	12.0	77.1	2.6	25.4	147.3	0.0	37.4	NA	. NA	NA	19.3	378.2	R 39.0	R 417.2
1970	0.0	275.6	31.8	38.8	11.9	118.0	1.5	40.3	242.2	0.0	34.3			NA	45.9		R 94.0	R 691.9
1980	6.5	213.6	61.2	17.9	11.0	139.1	11.8	38.0	279.2	0.0	52.4			NA	90.4	642.0	R 192.3	R 834.4
1990	5.8	201.8	72.5	12.8	9.2	152.3	1.3	16.8	265.0	0.0	70.6			1.3	93.4	638.5	R 191.2	R 829.7
2000 2005	9.6 9.3	220.8 166.2	109.1 141.6	23.7 10.0	27.6 7.1	173.2 179.1	0.1 0.2	21.8 18.4	355.4 356.5	0.0	83.5 79.1			0.8	142.0 157.5	812.2 769.2	R 312.5 R 325.6	R 1,124.7 R 1,094.8
2006	9.1	167.8	136.8	10.0	6.7	179.2	(s)	24.2	357.1	0.0	83.3			0.1	159.1	777.5	R 325.6	R 1,103.1
2007	9.8	164.4	138.9	10.1	7.0	179.8	0.4	23.1	359.2	0.0	86.5			0.1	160.6	781.7	R 327.1	R 1,108.8
2008	9.6	172.2	147.9	12.0	6.2	174.4	0.3	15.9	356.6	0.0	74.9			0.1	157.4	772.0	R 310.2	R 1,082.2
2009	7.4	162.8	125.5	10.8	4.5	178.5	0.3	21.7	341.3	0.0	82.0			0.1	147.3	741.6	R 278.1	R 1,019.7
2010 2011	7.3 5.6	176.3 179.7	135.1 133.6	10.3 9.4	7.9 7.8	176.9 170.7	(s) 0.1	25.6 29.8	355.8 351.3	0.0	87.6 90.3			0.1 0.1	164.4 163.5	792.2 791.3	R 316.9 R 323.8	R 1,109.1 R 1,115.1
2011	5.2	168.7	121.9	7.8	8.1	170.7	0.1	25.8	334.4	0.0	90.3 88.4			0.1	159.9	757.6	R 307.2	R 1,064.7
2013	5.1	192.2	125.4	8.9	7.6	168.0	0.1	25.9	336.0	0.0	89.0			0.1	159.3	R 782.4	R 309.8	R 1,092.3
2014	5.5	198.9	122.1	10.0	7.9	173.1	0.1	27.4	340.4	0.0	87.7			0.1	160.6	794.1	R 314.5	R 1,108.5
2015	4.7	183.7	114.6	8.4	7.4	176.4	(s)	22.9	329.7	0.0	R 76.6	0.1		0.1	158.5		R 289.3	R 1,043.5
2016	4.8	176.6	112.9	6.7	7.1	182.9	(s)	30.0	R 339.8	0.0	R 72.0 R 72.9			0.1 R 0.1	157.6		R 284.9	R 1,036.6
2017 2018	4.7 4.1	187.3 211.0	112.5 121.5	6.3 8.3	7.6 6.6	182.3 179.2	0.0	29.3 R 26.5	338.0 342.1	0.0	R 75.0			R 0.1	157.2 169.2	761.1 R 802.5	R 282.7 R 300.2	R 1,043.7 R 1,102.7
2019	4.0	208.1	119.3	8.9	7.0	183.4	0.0	27.2	345.7	0.0	R 73.5			R 0.2	164.1	R 796.6	R 281.1	R 1,077.7
2020	3.4	196.7	118.6	8.1	5.3	170.3	0.0	27.3	329.6	0.0	R 55.9	0.1		R 0.4	156.4	R 743.3	R 267.2	R 1,010.5
2021	3.4	207.0	R 118.0	8.1	5.7	182.1	0.0	R 28.5	R 342.3	0.0	R 55.3			R <sub>0.7</sub>	166.0	R 775.7	R 279.2	R 1,055.0
2022	3.2	203.3	118.4	7.7	6.3	179.8	0.0	28.9	341.0	0.0	56.1	0.1	0.8	0.9	167.2	772.6	280.6	1,053.2

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>&</sup>lt;sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

j Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

m Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Arkansas

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>©</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	0	33	24	2,711	62	2,798				1,339			
1965	Ö	33 37	43 70	3.275	63	3.382				2.333			
1970 1975	0	60	70	6,275 4,943	147	6,491 5,233				4,321 7,751			
1975	0	49 47	161 152	4,943	128 0	5,233 2,203				7,751 10,227			
1980 1985	(s)	47	152	2,051 1,995	31	2,203				8,936			
1990	(s)	39	(s)	1.772	20	1,792				10,558			
1995 2000	0	41	(s) 2	1,434 2,572	14	1.450				12.417			
2000	0	42	1	2,572	25	2,598				14,871			
2005	, 0	34 31	1	1.461	14 9	1,476				17,134			
2006 2007	(s)	31	3	1,441 1,416	9	1,453 1,426				17,065 17,415			
2007	(s)	33 36	2	1,797	2	1,801				17,413			
2009	0	33	4	1,770	5	1,778				17,392 16,986 19,231			
2009 2010	Ö	33 36	9	1,575	6	1,590				19,231			
2011	0	34 26	10	1,318	2	1.330				18.787			
2012	0	26	4	994	1	999				17,909			
2013	0	35	4	1,326	1	1,331				18,219			
2014 2015	0	35 38 33 27	5 8	1,292 1,093	3	1,301 1,103				18,441 18,273			
2016	n n	27	13	832	1	847				17,784			
2017	ŏ	26	8	768	(s)	776				17,027			
2018	Ö	35 34	7	1,039	Ϋ́1	1,048				19,259			
2019	0	34	1	1.066	1	1.068				18.732			
2020	0	30	3	1,091	1	1,095				17,980			
2021 2022	0	34 31	7	1,037 1,158	1	1,045 1,166				18,918 19,251			
2022	U	31	,	1,136		1,100				19,231			
							Trillion Btu						
1960	0.0	34.4	0.1	10.4	0.4	10.9	19.4	NA	NA	4.6	69.3	R 9.2	R 78.5
1965 1970	0.0	36.5 60.0	0.3	12.6	0.4	13.2 25.3	13.3	NA	NA	8.0	71.0	n 15.7	R 100.7
1970	0.0 0.0	48.3	0.4 0.9	24.1 19.0	0.8 0.7	25.3	8.3 8.6	NA NA	NA NA	14.7 26.4	108.5 104.0	R 15.7 R 30.2 R 54.0	R 86.7 R 138.7 R 158.0
1980	(s)	46.6	0.9	7.9	0.7	8.8	2.0	NA	NA	34.9	92.3		R 166.5 R 145.0 R 160.7 R 187.2 R 218.9 R 224.9 R 220.9 R 225.0
1980 1985	(s)	46.6 40.9	0.9 (s)	7.9 7.7	0.0 0.2	7.8	2.0 3.8	NA	NA	34.9 30.5	92.3 83.0	R 62.0	R 145.0
1990 1995 2000	(s)	39.5 44.6 43.2	(s) (s)	6.8 5.5	0.1	6.9	3.2 4.6	0.1	1.3 1.2	36.0	87.0	R 62.0 R 73.7 R 88.7 R 111.7	R 160.7
1995	0.6	44.6	(s)	5.5	0.1	5.6	4.6	0.1		42.4 50.7	98.5	H 88.7	H 187.2
2000	0.0	43.2	(s)	9.9	0.1	10.0	2.3	0.2	0.8	50.7	107.2	n 111.7	n 218.9
2005 2006 2007	0.0 (s)	33.9 32.5 33.0	(s) (s) (s)	5.6 5.5	0.1 0.1	5.7	5.6 5.0 5.5	0.3 0.4	0.1 0.1	58.5 58.2	104.1 101.7	R 120.8 R 119.1 R 121.0 R 117.0	H 224.9
2006	(S) (S)	32.5 33.0	(8)	5.5 5.4	(s)	5.6 5.5	5.0	0.4	0.1	59.4	101.7	R 121 0	R 225.0
2008	0.0	36.0	(s)	6.9	(s)	6.9	6.1	0.5	0.1	59.3	109.0	R 117.0	R 226.0
2009	0.0	33.6	(s) (s)	6.8	(s)	6.8	9.6	0.7	0.1	58.0	108.8	H 100 /	R 218.2
2010	0.0	36.5	0.1	6.0	(s)	6.1	10.3	0.8	0.1	65.6	_ 119.4		R 245.8
2011 2012	0.0	34.2 26.5	0.1	5.1 3.8	(s)	5.1 3.8	10.0 8.3	0.7	0.1	64.1	119.4 R 114.2 100.6	R 126.5 R 126.9 R 117.4 R 120.9	H 241.2
2012	0.0	26.5	(S)	3.8	(S)	3.8	8.3	0.8	0.1	61.1	100.6	T 117.4	n 218.0
2013 2014	0.0 0.0	35.7 38.6	(s) (s) (s) (s)	5.1 5.0	(S)	5.1 5.0	10.9	0.8 0.8	0.1 0.1	62.2 62.9	114.7 118.4	R 120.9	R 226.0 R 218.2 R 245.8 R 241.2 R 218.0 R 235.6 R 241.5 R 221.2 R 207.2 R 196.9
2014	0.0	33.5	(s)	4.2	(8)	4.3	11.0 <sup>R</sup> 6.5	0.8	0.1	62.3	107 4	R 123.2 R 113.8	R 221 2
2016	0.0	27.5	0.1	3.2	(s)	3.3	5.2	0.8	0.1	60.7	97.5	R 109.7 R 104.4 R 116.6	R 207.2
2016 2017	0.0	27.5 26.1	(s)	3.2 2.9	(s)	3.3 3.0	5.2 4.4	0.8 0.8	0.1	60.7 58.1	97.5 92.5 R 113.0	R 104.4	R 196.9
2018	0.0	35.5	(s)	4.0	(s)	4.0	6.9	0.8	R 0.1	65.7	H 113.0	H 116.6	H 229.6
2019	0.0	34.2	(s)	4.1	(s)	4.1	R 7.0 R 4.2	0.8	n 0.1	63.9	n 110.1	n 109.5	<sup>n</sup> 219.6
2020 2021	0.0 0.0	30.7 34.3	(s) (s)	4.2 4.0	(S)	4.2 4.0	" 4.2 R 3 o	0.8 0.8	R 0.1 R 0.2 R 0.3	61.3 64.5	R 110.1 R 101.5 R 107.9	R 109.5 R 104.8 R 108.6	R 216.5
2021	0.0	31.9	(s)	4.4	(s)	4.5	R 3.9 4.8	0.8	0.5	65.7	108.1	110.2	R 219.6 R 206.2 R 216.5 218.3
	0.0	01.0	(0)	-11	(0)	-1.0	1.0	0.0	0.0	00.7	100.1	110.2	210.0

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Arkansas

					Pet	roleum				Biomass						
- -	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	0	17	14	620	38	151 127	103	925	NA			NA	1,161			
1965 1970	0	28 39	24 40	748 1,434	38 39 90	127 181	103 88 41	925 1,027 1,786	NA NA			NA NA	1,834 2,789			
1970	0	33	92	1,434	90 79	143	1,077	2,520	NA NA			NA NA	4,382			
1980 1985	5	31 27	112 829	469 456	132 84	162 119	437	1,312 1,488	NA NA			NA NA	5,326 5,848			
1990	(s)	25 27	298	405	1	142	0	847	0			0	6,681			
1995 2000	`Ó	27 33	301 376	328 588	5 4	29 29	0	662 996	0			0	7,771 9,472			
2000	0	33	714	287	20	140	0	1,162	0			0	9,472 11,366			
2006 2007	(s)	31	93 90	279 204	12 9	145 123	0	528 426	0			0	11,581 11,801			
2007	0	32 37	102	432	9	128	0	671	0			0	11,703			
2009	0	36	975	300	(s)	137	0	1,412	0			0	11,477			
2010 2011	0	40 40	660 621	291 307	(s)	160 71	0	1,112 1,000	0			1	12,188 12,146			
2012	0	41	380	304	(s)	76	0	760	0			2	12,102			
2013 2014	0	48 51	365 570	290 379	(s) (s)	56 80	0	712 1,030	0			2 2	11,898 11,988			
2015	0	48 46	594	324		618	0	1,537	0			3	12,153			
2016 2017	0	46 47	534 553	225 212	1	545 538	0	1,305 1,305	0			3	12,178 11,913			
2018	Ö	55	591	306	2	540	Ö	1.438	Ō			. 8	12,278			
2019 2020	0	55 53	695 481	284 368	3 2	543 547	0	1,525 1,398	0			19 41	11,949 11,110			
2021	Ö	53 57	539	445	2	553	Ö	1,539	Ŏ			81	11,517			
2022	0	55	549	302	1	646	0	1,499	0 lion Btu	==		93	11,787			
4000		47.0													Poo	
1960 1965	0.0 0.0	17.8 28.0	0.1 0.1	2.4 2.9	0.2 0.2	0.8 0.7	0.6 0.6	4.1 4.5	NA NA	0.4 0.3	NA NA	NA NA	4.0 6.3	26.2 39.0	R 8.0 R 12.3	R 34.2 R 51.3
1970	0.0	39.3	0.2	5.5	0.5	0.9	0.3	7.5	NA	0.2	NA	NA	9.5	56.5	R 19.5 R 30.5	R 76.0 R 91.6
1975 1980	0.0 0.1	33.1 30.5	0.5 0.6	4.3 1.8	0.4 0.7	0.8 0.9	6.8 2.7	12.8 6.8	NA NA	0.2 0.1	NA NA	NA NA	15.0 18.2	61.1 55.6	R 38.7	R 94.3
1985	(s)	27.2	4.8	1.8	0.5	0.6	0.0	7.7	NA	0.1	NA	NA	20.0	54.9	R 40 5	H 95 5
1990 1995	(s) 0.0	25.3 29.7	1.7 1.8	1.6 1.3	(s) (s)	0.7 0.2	0.0 0.0	4.0 3.2	0.0 0.0	0.5 0.8	(s) (s)	0.0 0.0	22.8 26.5	52.7 60.3	R 46.7 R 55.5 R 71.1	R 99.4 R 115.8
2000	0.0	33.8	2.2	2.3	(s)	0.1	0.0	4.6	0.0	0.6	0.0	0.0	32.3	71.3	R 71.1	H 142.5
2005 2006	0.0 (s)	31.8 32.3	4.2 0.5	1.1 1.1	0.1 0.1	0.7 0.8	0.0 0.0	6.1 2.4	0.0 0.0	1.0 0.9	0.0 0.0	0.0 0.0	38.8 39.5	77.7 75.1	R 80.2 R 80.8	R 157.9 R 155.9
2007	(s)	32.5 37.2	0.5	0.8	0.1	0.6	0.0	2.0	0.0	0.9	0.0	0.0	40.3	75.7	R 82.0 R 78.7	R 155.9 R 157.7 R 159.8
2008 2009	0.0	37.2 36.8	0.6 5.6	1.7 1.2	(s) (s)	0.7 0.7	0.0 0.0	3.0 7.5	0.0 0.0	1.0 1.4	0.0 0.0	0.0 0.0	39.9 39.2	81.1 84.8	R 78.7	n 158 8
2010	0.0	40.5	3.8	1.1	(s)	0.8	0.0	5.7	0.0	1.4	0.0	(s)	41.6	89.3	R 80 2	R 169.4 R 170.6
2011 2012	0.0 0.0	40.6 41.9	3.6 2.2	1.2 1.2	(s) (s)	0.4 0.4	0.0 0.0	5.1 3.7	0.0 0.0	1.3 1.2	0.0 0.0	(s) (s)	41.4 41.3	88.5 88.1	R 82.1 R 79.3	H 167 4
2013	0.0	48.6	2.1	1.2 1.1	(s)	0.3	0.0	3.5	0.0	1.4	0.0	(s)	40.6	94.0	n 79 0	H 173 N
2014 2015	0.0 0.0	51.2 48.2	3.3 3.4	1.5 1.2	(s) (s)	0.4 3.1	0.0 0.0	5.1 7.8	0.0 0.0	1.4 1.0	0.0 0.0	(s) (s)	40.9 41.5	98.7 98.5	R 80.1 R 75.7	R 178.8 R 174.2
2016	0.0	46.4	3.1	0.9	(s)	2.8	0.0	6.7	0.0	1.0	0.0	(s)	41.6	95.6	R 75.1 R 73.1	H 170 7
2017 2018	0.0 0.0	48.2 56.2	3.2 3.4	0.8 1.2	(s) (s)	2.7 2.7	0.0 0.0	6.7 7.3	0.0 0.0	0.9 1.1	0.0 0.0	R (s)	40.6 41.9	96.5 106.6	H 73.1 R 74.3	R 169.5 R 180.9
2019	0.0	55.8	4.0	1.1	(s)	2.7	0.0	7.9	0.0	1.1	0.0		40.8	R 105 6	н 69 8	R 180.9 R 175.4
2020 2021	0.0 0.0	53.4 57.9	2.8 3.1	1.4 1.7	(s) (s)	2.8 2.8	0.0 0.0	7.0 7.6	0.0 0.0	1.0 0.9	0.0 0.0	R 0.1 R 0.3	37.9 39.3	R 99.4 R 106.0	R 64.7 R 66.1	R 164.1 R 172.1
2022	0.0	56.2	3.2	1.2	(s)	3.3	0.0	7.6	0.0	0.9	0.0	0.3	40.2	105.2	67.5	172.7
					. ,											

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Arkansas

					Petro	leum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960	14	108	1.055	1,183	431	315	3.629	6.614	0				NA	3,161			
1960 1965	14 6	108 134	1,055 1,057	1,141	431 485	291	3,629 4,548	6,614 7,522	Ö				NA	4,883			
1970 1975	0 40	162 132	1,962	1,798	291	191	5,750 5,256	9,992 14,615	0				NA NA				
1975	296	126	2,841 3,544	2,715 2,122	169 51	3,634 1,438	5,296	12,452	0				NA NA				
1985 1990	379 256	109 127	4,273 2,424	1 076	630 416	726 214	2,632 2,217	9,338 6,473	ő				NA	9,049			
1990	256	127	2,424	1,202	416	214	2,217	6,473	0				0				
1995 2000	325	140 132	4,041 4,026	1,416 3,269	449 550	204 9	2,768 3,001	8,878	0				0				
2005	382 368	91	6,890	875	1,218	33	2,565	10,855 11,582	0				0				
2006	365	89	6,952	966	1.336	4	3.401	12.660	ŏ				ŏ				
2007	397 388	88 88	7,091	1,069	950	69	3,236	12,415 12,806	0				0				
2008 2009	388	88	9,047 4,419	846 786	688 688	44 41	2,181	12,806 9.003	0				0	,000			
2010	298 288	89	5,782	792	755	1	3,069 3,675	11,005	0				0				
2011	233	82 89 92 89 94	5,347	803	766	22 11	4.345	11 283	ő				ő	16,994			
2012 2013	217 215	89	5,120	730 696	703 758	11	3,776	10,339 10,885	0				0				
2013	215 227	94 96	5,605 5,157	914	758 649	13 10	3,813 4,041	10,885	0				0	. 0,000			
2014	197	90	3,881	744	718	10	_ 3,337	8 681	0				0				
2016	200	92 93	3,530	675	760	1	H / 365	8,681 R 9,332	ő				Ö	16,226			
2017	198	105	2,844	646	764	0	R 4,259	R 8,512 R 8,963	0				0	17,146			
2018 2019	175 172	110 109	3,523 3,466	814 953	779 757	0	R 4,259 R 3,848 R 3,953	R 9,129	0				1	18,065 17,412			
2019	149	105	3,466	650	764	0	R 3 995	R 9 158	0				26				
2020 2021	150	108	3,411	615	741	ŏ	R 3,995 R 3,904	<sup>rt</sup> 8,670	ŏ				30	18,228			
2022	141	108	3,448	536	802	0	3,967	8,753	0				37	17,960			
									Trillion Bt	u							
1960	0.4	112.1	6.1	4.5 4.3	2.3 2.5	2.0	22.2	37.1	0.0	17.7	NA	NA	NA	10.8	178.1	R 21.8	R 199.8
1965	0.2	134.2 162.8	6.2 11.4	4.3	2.5	1.8	28.0	42.9	0.0	21.6	NA NA	NA NA	NA NA		215.5	R 32.8 R 44.3	R 248.2
1970 1975	0.0 0.9	131.7	16.5	6.6	1.5 0.9	1.2 22.8	35.6 32.7	56.3 82.6	0.0 0.0	25.8 27.1	NA NA	NA NA	NA NA		266.5 262.7	R 41 0	B 204 4
1980	6.3	125.1	20.6	9.6 7.5	0.3	9.0	33.3	70.7	0.0	50.3	NA	NA	NA	37.3	289.8	H 79 4	H 369 3
1985	8.1	110.9	24.9	3.7	3.3	4.6	16.6	53.0 35.1	0.0	58.9 66.9	0.0	NA	NA		261.9	R 62.7 R 70.7	H 22/1 E
1990	5.8 7.8	128.3 151.8	14.1 23.5	4.1 4.9	2.2 2.3	1.3 1.3	13.3 17.4	35.1 49.4	0.0 0.0	66.9 77.5	0.0 0.0	0.0 0.0	0.0 0.0		270.7 335.9	H 70.7	R 341.5
1995 2000	7.8 9.6	134.8	23.5	11.2	2.3	0.1	17.4	49.4 55.9	0.0	77.5	0.0	(s)	0.0		339.9	R 129 7	R 469.6
2005	9.3	91.4	40.1	3.0	6.3	0.2	15.6	55.9 65.2	0.0	72.5	(s)	(s)	0.0	60.3	298.7	R 103.5 R 129.7 R 124.6	R 341.5 R 439.4 R 469.6 R 423.3
2006	9.1	92.2	40.3	3.3	6.9	(s) 0.4	21.2	71.8	0.0	77.4	(s)	(s)	0.0	61.4	311.9	R 125.6 R 124.0 R 114.6 R 94.8 R 110.3	R 437.5
2007	9.8	88.5	41.0	3.6	4.9	0.4	20.2	70.1	0.0	80.0	(s)	(s)	0.0		309.4	R 124.0	R 433.4 R 411.2
2008	9.6 7.4	88.9 83.1	52.3 25.5	2.9	3.5	0.3 0.3	13.3	72.2 51.1	0.0 0.0	67.8 71.0	(S)	(S)	0.0 0.0		296.6	'' 114.6 R ou s	R 357 6
2009 2010	7.4 7.3	83.1 89.6	25.5 33.4	2.6 3.0	3.5 3.8	(s)	19.2 23.1	63.4	0.0	71.0 75.9	(s)	(s)	0.0	57.2	262.9 293.4	R 110.3	R 357.6 R 403.7
2011	5.6	93.4	30.9	3.1	3.9	(s) 0.1	27.5	65.4	0.0	79.0	0.1	(s)	0.0	58.0	301.4	H 114 8	H 416 2
2012	5.2	89.7	29.5	2.8	3.6	0.1	23.7	59.7	0.0	78.9 76.7	(s)	(s)	0.0		290.9 297.4	R 110.4 R 109.9 R 111.2	R 401.4 R 407.3
2013 2014	5.1	96.3 97.2	32.3 29.7	2.7	3.8 3.3	0.1 0.1	23.8 25.4	62.7 62.0	0.0	75.3	0.1	(s)	0.0		297.4	R 111 2	R 407.3
2014	5.5 4.7	93.1	22.4	3.5 2.9 2.6	3.6	(s)	20.7	49.5	0.0	69.1	(s) 0.1	(s)	0.0	, 50.6 ) 54.7	296.8 271.2	R 99.9 R 100.1	R 408.0 R 371.1 R 375.1
2016	4.8	93.1 94.4	20.3	2.6	3.8	(s) (s) 0.0	20.7 R 27.9	54.6	0.0	65.8	0.1	(s)	0.0	55.4	275.0	R 100.1	R 375.1
2017	4.7	106.1	16.4	2.5	3.9	0.0	27.3 R 24.6	50.0	0.0		0.1	(s)	0.0		287.0 R 296.7	H 105 2	H 202 2
2018 2019	4.1 4.0	111.9 110.2	20.3 20.0	3.1 3.7	3.9 3.8	0.0	<sup>n</sup> 24.6 25.3	R 51.9 R 52.7	0.0	67.0 65.5	0.1 0.1	(s) (s)	(s) _ (s)	61.6	296.7 _ 292.0	11 109.3 R 101 9	R 406.0 R 393.7
2020	3.4	106.3	21.6	2.5		0.0	25.6	53.5	0.0	50.7	0.1	(8)	R 0.1	57.2	R 271.3	R 109.3 R 101.8 R 97.7 R 104.6	R 368.9
2020 2021	3.4	109.5	19.7	2.5 2.4	3.9 3.7	0.0	25.1	53.5 R 50.8	0.0	50.5	0.1	(s)	R 0.1	62.2	R 271.3 R 276.7	R 104.6	R 368.9 R 381.3
2022	3.2	109.5	19.9	2.1	4.0	0.0	25.4	51.4	0.0	50.4	0.1	(s)	0.1	61.3	276.0	102.8	378.9

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

A Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Arkansas

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
960	(s)	9	177	926	309	2,237	274	14,093	3	18,019	0			
965	(s) (s) 0	11	482 293	1,703 3,383	434 692	2.094	305 300	17,310	36	22 364	0			
970 975	(e)	13 12	293 254	3,383 6,410	692 679	2,204 1,995	300 308	21,985 27,299	5 11	28,862 36,957	0			
980	(s) 0	12 11	254 275	6,699	205	2.035	432	26,276	0	35 922	0			
985	0	8	86 125	7,690 9,722	147	2,030	432 393 442	25,857	0	36,203 40,503	0			
990 995	0	9 11	125 143	9,722 12,569	83 51	1,693 1,179	442 422	28,438 31,644	0	40,503 46,008	0			
000	0	9	93	14 346	93	4,868	451	32,719	0	52,570	0			
005	ŏ	9	93 67	14,346 16,739	93 83	1,251	451 380	33,139	ĭ	51 661	Ŏ			
006	0	11	111	16,529 16,825	81	1,183	371	33,079	0	51,352 52,491 51,452 51,871	0			
007 008	0	10 10	110 87	16,825	59 154	1,226 1,085	383 355 319	33,889 33,338	0	52,491 51,452	(s)			
009	ő	9	110	16,330	154 77	800	319	34.235	ő	51,871	(s)			
010	0	10	86	16,942	19	1,386	333 315	33,999	0	52,765	(s)			
011	0	11	81	17,169	19	1,373	315	32,869	0	51,826	(s)			
012 013	0	11 11	82 70	15,633	12 17	1,421	280	32,954	0	50,381	(s) (s)			
014	0	12	70 39	15,793 15,448	17 15	1,343 1,385	288 295	32,386 33,484	0	49,897 50,665	(s)			
015	Ö	9	48	15.410	20	1.301	_ 321	33.542	Ö	50 643	(s)			
016	0	8	48 48	15,541 16,134	20	1,259	H 310	34,886	0	R 52,064 R 52,601	(s)			
017 018	0	7	48 47	16,134 16,970	6 4	1,340 1,156	n 289 B 277	34,785 34,142	0	P 52,601 P 52,597	(S)			
019	0	8	48	16,550	5	1,236	R 310 R 289 R 277 R 266	35,006	0	R 53.110	(s)			
020	ő	6	44 49	16 371	7	932	R 247 R 259	32,391	ŏ	R / a a a 2	(s)			
021 022	0	5 6	49 50	R 16,508 16,535	8 4	998 1,104	H 259 273	34,755 34,153	0	R 52,884 52,399	(s)			
022	U	0	50	10,555	4	1,104	-	· · · · · · · · · · · · · · · · · · ·	U	52,399	(s)			
								Ilion Btu						
960 965	(s) (s) 0.0	9.5 11.4	0.9 2.4	5.4 9.9	1.2 1.7	12.0 11.2	1.7 1.8	74.0 90.9	(s) 0.2	95.2 118.2	0.0 0.0	104.7 129.6	0.0 0.0	104.7 129.6
970	0.0	13.5	1.5	19.7	2.7	11.9	1.8	115.5	(s)	153.1	0.0	166.5	0.0	166.5
975	(s) 0.0	12.2	1.3	37.3	2.6	10.8	1.9	143.4	(s) 0.1	197.4	0.0	209.5	0.0	209.5
980	0.0	11.4	1.4	39.0	0.8	11.0	2.6	138.0	0.0	192.9	0.0	204.3	0.0	204.3
985 990	0.0 0.0	8.3 8.7	0.4 0.6	44.8 56.6	0.6 0.3	11.0	2.4	135.8	0.0	195.0	0.0 0.0	203.4	0.0 0.0	203.4
995	0.0	12.5	0.0	73.1	0.3	9.2 6.7	2.7 2.6	149.4 164.7	0.0 0.0	218.9 248.0	0.0	228.1 260.4	0.0	228. <sup>-</sup> 260. <sup>4</sup>
000	0.0	9.0	0.5	83.5	0.4	27.6	2.7	170.2	0.0	284.8	0.0	293.8	0.0	293.8
005	0.0	9.0	0.3	97.4	0.3	7.1	2.7 2.3 2.2	172.1	(s) 0.0	279.5	0.0	288.7	0.0	288.
006 007	0.0 0.0	11.0 10.3	0.6 0.6	95.9 97.3	0.3 0.2	6.7	2.2	171.5 174.3	0.0	277.3 281.6	0.0 0.0	288.8 292.7	0.0 0.0	288.8 292.7
800	0.0	10.0	0.4	95.0	0.6	7.0 6.2	2.3 2.2	170.2	0.0	274.5	(s)	285.2	(s)	285.
009	0.0	9.2	0.6	94.3	0.3	4.5 7.9	1.9 2.0	174.3	0.0	275.9	(s)	285.2	(s) (s)	285.
010	0.0	9.6	0.4	97.8	0.1	7.9	2.0	172.3	0.0	280.5	(s)	290.1		290.
011 012	0.0 0.0	11.5 10.7	0.4 0.4	99.1 90.2	0.1	7.8 9.1	1.9 1.7	166.4 166.8	0.0 0.0	275.7 267.2	(s)	287.1 277.9	(s) (s)	287. 277.
013	0.0	11.7	0.4	91.0	(s) 0.1	8.1 7.6	1.7	163.9	0.0	264 7	(s)	276.4	(s)	276.
014	0.0	11.8	0.2 0.2	89.0	0.1	7.9 7.4	1.8 1.9	169 4	0.0	268.3 268.1 R 275.2	(s)	280.2 277.0	(s)	280.1 277.0
015	0.0	8.9	0.2	88.8	0.1	7.4	1.9	169.6	0.0	268.1	(s)	277.0	(s)	277.0
016 017	0.0 0.0	8.4 6.9	0.2 0.2	89.5 92.9	0.1	7.1 7.6	1.9 R 1.8	176.3 175.8	0.0 0.0	7 275.2 278.3	(S)	283.5 285.2	(s) (s)	283. 285.
017	0.0	7.4	0.2	97.7	(s) (s)	6.6	1.7	172.6	0.0	278.8	(S)	286.2	(s)	286.2
019	0.0	7.9	0.2	95.3	(s)	7.0	1.6	176.8	0.0	281.0	(s)	288.9	(s)	288.9
020	0.0	6.3	0.2	94.2	(s)	5.3	1.5	163.6	0.0	264.9	(s)	271.2	(s)	271.
021 022	0.0 0.0	6.3 5.3 5.8	0.2 0.3	R 95.1 95.3	(s) (s)	7.0 5.3 5.7 6.3	1.5 R 1.6 1.7	175.5 172.4	0.0 0.0	264.9 R 279.8 277.4	(s)	R 285.1 283.3	(s) (s)	R 285.1 283.3
	U.U	5.6	0.3	93.3	(8)	0.3	1.7	1/4.4	0.0	2/1.4	(8)	200.3	(8)	203.0

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— —</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Arkansas

				Petro	leum		Nooleen		Biomass				Floodoisia	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	lowatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	0	47	1	0	118	119	0	992		0	NA	NA	0	
1965 1970	0	68 107	(s) 8	0	38 698	38 705	0	1,080 2,160		0	NA NA	NA NA	0	
1970	0	32		0	4,365	705 4,427	4,874	3,433		0	NA NA	NA NA	0	
1980 1985	1,774 12,302	32 59 11	62 180 12	0	3,106 8	3,285	7,833 9,889	1,695 4,434		0	NA	NA	0	
1985	12,302		140	0	8 15	21 155	11,282	4,434 3,655		0	0	0	0	
1995	13,216	32 33	94	Ö	15	109	11.658	3,218		Ö	Ō	0	Ö	
2000 2005	14,866 14,031	35 49	67 72	0	293 230	360 302	11,652 13,690	2,370 3,083		0	0	0	0	
2006	14 614	71	48	Õ	219	267	15 233	1,551 3,237		Ö	Õ	Õ	Õ	
2007 2008	15,629 15,678	64 64	63	0	70 54	133 98	15,486 14,168	3,237 4,660		0	0	0	0	
2009	14,994 16,537	83 97	44 64 55	ő	77	142 75	15,170	4,193 3,659		Ö	ő	ő	ő	
2010 2011	16,537 17,465	97 107	55	0	20 12	75 04	15,023 14,194	3,659 2,958		0	0	0	0	
2012	17,023	129	81 53 65	0	2	94 55 72 45 98	15,493	2,198		0	0	0	0	
2013	18,766	94 72	65 45	0	7	72	11,945 14,478	2,655 2,640		0	0	0	0	
2014 2015	19,281 12,815	110	98	0	(s) 1	45 98	13,838	2,640 3,569		0	1	0	0	
2016	14.066	135	72 83	0	0	72	13,421	3,570		0	26	0	0	
2017 2018	15,193 17,452	127 153	83 56	0	0	72 83 56 78	12,691 12,721	2,943 3,009		0	31 203	0	0	
2019	13,763	160	56 78	ő	Ö	78	13,575	4.135		Ö	201	ŏ	ŏ	
2020 2021	9,201 12,277	135 149	88 95	0	3 0	91 95	15,063 13,556	4,531 4,029		0	253 440	0	0	
2022	11,926	189	115	ő	0	115	14,324	3,469		0	714	0	ő	
							Trillion Btu							
1960	0.0	48.4	(s)	0.0	0.7	0.7	0.0	R 3.4 R 3.7	0.0	0.0	NA	NA	0.0	R 52.6
1965 1970	0.0 0.0	67.6 107.9	(s) (s)	0.0 0.0	0.2 4.4	0.2 4.4	0.0 0.0	R 7 A	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	R 71.5 R 119.7
1975	0.0	32.2	(s) 0.4	0.0	4.4 27.4	27.8	53.7	R 11.7 R 5.8	0.0	0.0	NA	NA	0.0 0.0	H 125 4
1980 1985	30.2 211.7	60.4 12.0	1.0 0.1	0.0 0.0	19.5 0.1	20.6 0.1	85.4 105.0	R 15 1	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0	0.0 0.0	R 202.4 R 344.0 R 372.3
1990	206.9	32.7	0.8	0.0	0.1	0.9	119.4	H 12 5	0.0	0.0	0.0	0.0	0.0	R 372.3
1995 2000	229.5 258.0	33.4 35.3	0.5 0.4	0.0 0.0	0.1 1.8	0.6 2.2	122.5 121.5	R 11.0 R 8.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 397.0 R 425.1
2005	237.9	50.4	0.4	0.0	1.4	1.9 1.7	142.9	R 10.5 _R 5.3	2.1	0.0	0.0	0.0	0.0	H 1157
2006 2007	247.8 265.2	73.0 65.2	0.3 0.4	0.0 0.0	1.4 0.4	1.7 0.8	159.0 162.4	H 11 A	0.8 1.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 487.6 R 506.5
2008	269.3	66.2	0.3	0.0	0.3	0.6	148.1	R 15 9	1.9	0.0	0.0	0.0	0.0	H 502 0
2009 2010	256.7 286.4	85.3 98.5	0.4 0.3	0.0 0.0	0.5 0.1	0.9 0.4	158.7 157.0	R 14.3 R 12.5	0.5 1.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 516.3 R 556.0
2010	300.5	109.2	0.5	0.0	0.1	0.4	148.5	H 10 1	1.3	0.0	0.0	0.0	0.0	H 570 2
2012	291.6	131.8	0.3	0.0	(s)	0.3	162.4	R 7.5 R 9.1	1.3	0.0	0.0	0.0	0.0	R 594.9 P 553.6
2013 2014	322.0 333.8	95.8 74.1	0.4 0.3	0.0 0.0	(s) (s)	0.4 0.3	124.8 151.4	Rgn	1.4 2.6	0.0 0.0	0.0 0.0	0.0	0.0 0.0	H 571 2
2015	333.8 222.2	113.1	0.3 0.6	0.0	(s)	0.3 0.6	144.7	H 122	2.6 2.7	0.0	(s)	0.0 0.0	0.0 0.0	n 495.5
2016 2017	241.6 262.9	139.0 130.3	0.4 0.5	0.0 0.0	0.0	0.4 0.5	140.4 132.7	R 12.2 R 10.0	4.0 3.3	0.0 0.0	R 0.1	0.0 0.0	0.0 0.0	R 537.7 R 539.8
2018	300.1	155.9	0.3	0.0	0.0	0.3	133.0	H 10.3	2.9	0.0	R 0.1 R 0.7	0.0	0.0	н 603.2
2019 2020	235.8 158.6	163.3 138.7	0.4 0.5	0.0 0.0	0.0 (s)	0.4 0.5	141.7 _ 157.3	H 14.1 R 15.5	2.8 2.4	0.0 0.0	R 0.7 R 0.9	0.0 0.0	0.0 0.0	R 558.8 R 473.9
2021	212.7	153.5	0.5	0.0	0.0	0.5	R 141.4	n 13.7	0.7	0.0	H 1.5	0.0	0.0	H 524.1
2022	208.5	194.4	0.7	0.0	0.0	0.7	149.4	11.8	0.6	0.0	2.4	0.0	0.0	567.8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, California

						Petroleum								
										1	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthoui	rs	Thousan	d barrels
1960	1,342	1,258	26,683	8,888	25,818	137,025	80,575	46,536	325,526	(s)	17,445	0	NA	NA
1965 1970	2,379 2,327	1,690 2,126	35,105 39,221	11,029 15,532	40.150	169,900 214,064	69,745 70,324 80,069	48,063 52,329	373,992 451,084 477,436 492,983	(s) 270 3,132	30,523 38,082	0	NA	NA
1970 1971	2,327 1,906	2,126 2,149	39,221 47,387	15,532 16 151	59,614 62,721	214,064	70,324 80,069	52,329 51,881	451,084 477,436	3,132 3,519	38,082	0	NA NA	NA NA
1972	1,773	2.186	46,087	16,151 17,505	63,646	219,227 232,758	78,082	54,904	492,983	3,175	39,018 31,755 38,754	0	NA	NA
1973 1974 1975	2.500	2 046	51 869	18,926 20,312	62 947	240,789 235,468 241,508	112 710	57 976	545,217 516,345 533,392	2 631	38,754	0	NA	NA
1974 1975	2,268 2,151	1,834 1,833	43,775 42,335	20,312 19,264	60,344 62,607	235,468	99,002 111,086	57,443 56,592	516,345 533 392	3,698 6,071	46,422 40,103	0	NA NA	NA NA
1976 1977	2,612	1,757 1,772	45,810	19,100	61.059	252,646 266,288	138,117	61,366	578,098 638,956 649,701 662,545	4,807	40,103 23,193 14,251 37,206 33,920 40,780 29,764 50,226	ő	NA NA	NA NA
1977	2.984	1,772	51,755	17,300	63,229	266,288	172,411	67,974	638,956	8.115	14,251	0	NA	NA
1978 1979	2,732 2,734	1,563 1,810	60,214 66,872	19,100 17,300 19,594 23,149	64,648 65,874	2/8,182	155,636 156,981	71,427 80,247	649,701 662 545	7,659 8,762	37,206	0	NA NA	NA NA
1980	2.669	1 808	62 277	19 197	63.201	278,182 269,423 253,593 252,914 249,912	148 701	69 430	616,400 571,534 517,093	4.920	40,780	ő	NA	NA
1981 1982	3,231	1,858 1,683	67,523 67,264	17,123 16,270	59,089	252,914	130,662 81,658	44,225 45,449	571,534	3,206	29,764	0	410	NA NA
1982	2,864	1,683	67,264	16,270 16,250	56,541 57,359 66,640	249,912	81,658 68,521	45,449 70,521	517,093	3,735 5,613	50,226	0	1,103 1,118	NA NA
1983 1984	1,456 1,669	1,535 1,670	68,093 75,417	16,259 20,667	66,640	256,139 265,187	68,521 76,540	70,521 74,846	536,893 579,297	14,144	43,159	4	901	NA
1985 1986	1.942	1,846	71.538	20,497 20,119	67.028	267,368 279,569	66.724	71,541 68,833	564,695 576,411	19,729	31,717	3	429 411	NA
1986 1987	1,865 1,934	1,846 1,531 1,935 1,804 1,975	74,668 68,393	20,119	75,176 79,857	279,569 292,909	58,047 66,638	68,833 70,846		26,215 30,387	50,225 56,885 43,159 31,717 41,459 24,564 23,474 30,801 23,793 21,957	3	411 616	NA NA
1988 1989	2.209	1.804	81.954	22,328 22,798 24,697	82.620	303,621	68.917	76,108	600,970 636,017 646,932 634,373 591,136 593,423 577,441 603,337 605,219	30,863	23.474	1	1,189	NA NA
1989	2,209 3,052	1,975	81,954 80,510	24,697	82,620 90,291	310.918	68,917 67,223	73.292	646,932	30,863 32,519	30,801	2,079	1.067	NA NA
1990 1991	3,809 4,002	2,036 2,150	77,233 74,857	19,992 18,596	94,907 90,064	305,983 298,698	64,095 45,310	72,164 63,611	634,373	32,693 31,542	23,793	2,759 2,915	1,133 1,424	NA NA
1992	4,002	2,130	69.190	21.088	86 688	315.643	34.315	66,499	593,423	35,244	20,167	2,864	1,424	NA NA
1992 1993	4,062 3,816	2,229 2,136	69,190 64,985	21,088 16,655 18,099 14,798 10,914	89,244	315,643 308,726 307,653 313,464 318,257	34,315 37,167	66,499 60,664	577,441	35,244 31,581 33,752 30,246 34,097	40,493	2,864 2,984	158 575	NA
1994 1995	3,703 3,675	2,282 2,077	72,385 73,050	18,099	98,793 95,304	307,653	41,932 46,248	64,474 62,354	603,337	33,752	23,013	3,387 3,087	810	NA
1996	3.444	2,077 1.955	73.677	14,796	103.773	313,464	40.283	62,354 68,815		30,246	46,033 44,751	3 079	2,523	NA NA
1997 1998	3,628 2,903	1,955 2,146 2,310	79,624 78,526	8,854 10,936 12,171 12,558 11,060	103,188 105,482	322,871 329,943 337,791 342,890	21,420 17,194	66,286	602,242 607,270	30,512	41,055	3,137 2,758	2,134	NA
1998	2,903	2,310	78,526	10,936	105,482	329,943	17,194	65.189	607,270	34.594	49,548	2,758	1,610	NA NA
1999 2000	3,005 2,954	2,340 2,509	82,748 93,456	12,171	98,673 103,001	337,791	23,794 33,734	70,775 65,890	651 530	33,372 35,176	40,737 38,334	3,230 3,518	1,395	NA NA
2001	2,834 2,943	2,465	97 376	11,060	97.216	351.981	25.470	72,395 72,040	625,953 651,530 655,498 679,406 655,623	33 220	25,542	3.500	2,205	3
2002	2,943	2,465 2,273 2,269	89,580 82,540	14,696 14,689	102,756	369,567	30,768	72,040	679,406	34,352 35,594	31,141	3,803	2,587	6
2003 2004	2,866 2,847	2,269	82,540 94 023	14,689	99,721 105,408	367,675 376,075	23,421 27,786	67,577 67 499	685,623	35,594 30,268	20,167 40,493 23,013 48,033 44,751 41,055 49,548 40,737 38,334 25,542 31,141 36,371 34,141 39,632	3,895 4,306	2,523 2,128 2,134 1,610 1,395 1,589 2,205 2,587 14,411 20,813 22,935	5 9
2005	2.849	2,407 2,248	94,023 96,902	14,831 12,375	104.612	376,075 381,301	33,939	67,499 69,209	685,622 698,338	36.155	39,632	4,306 4,262	22,935	31
2006 2007	2,771 2,779	2,316 2,396	99,305 99,024 90,395 87,734 91,523	12,090 11,505 16,341 16,682 16,507	106,403 110,794	383,178 380,780	37,731 39,680	68,041 69,299	706,748	31,959 35,792	48,047 27,328 24,128 27,888	4,883 5,585	22,660 23,783 24,254 23,928	88 119
2007	2,779 2,681	2,396 2.405	99,024 90,395	11,505 16,341	100 836	380,780 364 468	40 614	69,299 59,587	711,081 672 240	35,792 32,482	27,328 24 128	5,585 5,385	23,783 24 254	119 102
2009	2,209	2,405 2,329 2,273	87,734	16,682	97,985 76,755 76,404 76,770	364,468 356,713	38,535 39,920 29,732 26,576	50,878	648,527	31,764	27,888	5,840	23,928	102 108 88 299 476
2010	2,311	2,273	91,523	16,507	76,755	355 172	39,920	49,456	629,334	32,201	33,431	6,079	36,730	88
2011 2012	2,347 1,863	2,153 2,403	93,626 89,815	16,505	76,404 76,770	345,678 342,083	29,732 26,576	54,218 48,842	616,164 598 528	36,663 18,507	42,557 26,837	7,752 9,754	35,717	299 476
2013	1.643	2,416	92.440	14,303	78,696	346,483	19,753	52,880	604,556	17,912	23,755	12,822	35,688	1,426 1,590
2013 2014	1,677	2,416 2,339 2,301	97,156	16,505 14,441 14,303 13,959 13,951	78,696 80,424 86,709	346,483 347,508 358,108	19,753 13,448 18,556	52,880 50,859 50,228	698,334 706,748 711,081 672,240 648,527 629,334 616,164 598,528 604,556 603,356 625,803	17,912 16,986 18,505	33,431 42,557 26,837 23,755 16,531 13,808	12,822 12,992	36,730 35,717 34,588 35,688 36,100 37,313 37,803 38,179 37,736 37,856 30,752 34,113 33,863	1,590
2015 2016	1,334 1,389	2,301 2,173	98,250 97,173	13,951 15,053	86,709 93,873	358,108 364,832	18,556 23 198	50,228 R 52 412	625,803 R 646 541	18,505 18 908	13,808 28 942	12,230 13,509	37,313 37,803	3,011 3,889
2017	1,389 1,464	2,173 2,117	100,277	15,053 14,508	93,873 99,777	364,832 366,820	23,198 26,237	R 52,412 R 52,981 R 53,549 R 52,313 R 48,245	R 646,541 R 660,601 R 662,855 R 660,088 R 524,646	18,908 17,901	28,942 42,363 26,331 38,355 21,377	13,509 12,823	38,179	3,889 4,042
2018	1,438 1,323	2,139 2,146 R 2,084 2,101 2,059	99,970	15,198 16,026	101.663	365,610 360,243	26,865 29,330	R 53,549	R 662,855	18,214	26,331	14,024	37,736	4,391 5,037 6,344
2019 2020	1,323 1,211	2,146 R 2 084	98,407 91,727	16,026 15,152	103,769 59,550	360,243 289,918	29,330 20,054	11 52,313 R 48 245	11 660,088 R 524 646	16,165 16,259	38,355 21,377	13,735 13,583	37,856 30,752	5,037 6,344
2021 2022	1,223 1,322	2,101	R 98,509	15,791 15,613	70,561	319,514 316,425	28,262	R 75,832 86,398	n 608,470	16,477	14,678 17,644	15,177	34,113	6,906
2022	1,322	2,059	97,803	15,613	82,887	316,425	28,960	86,398	628,086	17,593	17,644	14,638	33,863	6,705

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, California (trillion Btu)

	(trillioi												
		1			Fossi	l fuels					_	Fossil fuels as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>8</sup>	HGL b	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol a	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
		guessus rueis				1001001001	100.0	<b>5</b>				2.0.200	10010011011
1960 1965 1970 1971 1972	35.9 63.7 61.8 51.0 47.5	1,301.8 1,813.2 2,241.3 2,265.3 2,303.6	155.4 204.5 228.5 276.0 268.5	33.9 42.1 57.9 60.1 64.6	140.7 222.2 332.9 350.3 355.9	719.8 892.5 1,124.5 1,151.6 1,222.7	506.6 438.5 442.1 503.4 490.9	280.6 290.1 316.6 314.0 331.9	1,836.9 2,089.8 2,502.5 2,655.4 2,734.5 3,048.4 2,872.4	3,174.6 3,966.7 4,805.6 4,971.7 5,085.5	1,301.8 1,813.2 2,241.3 2,265.3 2,303.6	155.4 204.5 228.5 276.0 268.5	719.8 892.5 1,124.5 1,151.6 1,222.7
1973	67.0	2.154.0	302.1 255.0	69.3	352.5 337.6	1,264.9 1,236.9	708.6	351.0	3,048.4	5.269.4	2,154.0 1,937.1	302.1 255.0	1,264.9 1,236.9
1974 1975 1976	60.7 56.4 66.6	1,937.1 1,937.3 1,849.7	255.0 246.6 266.8 301.5	73.9 69.2 68.4	337.6 350.7 342.1 354.3	1,236.9 1,268.6 1,327.1 1,398.8	622.4 698.4 868.3	346.6 343.0 371.8	2,872.4 2,976.5 3,244.8 3,611.3	4,870.3 4,970.2 5,161.1	1 937 3	255.0 246.6 266.8	1,236.9 1,268.6 1,327.1 1,398.8
1977	75.1	1.864.2	301.5	61.1	342.1 354.3	1,327.1	1.083.9	411.7	3,244.8	5.550.6	1,849.7 1,864.2	301.5	1,398.8
1978 1979	67.9 68.6	1,646.3 1,900.4	350.7 389.5	69.6 83.9	362.6 369.6	1,461.3 1,415.3	978.5 986.9	431.8 488.6	3,654.4 3,734.0 3,477.3 3,210.9 2,874.2	5,368.6 5,702.9	1,646.3 1,900.4	350.7 389.5	1,461.3 1,415.3
1980	66.2	1 890 9	362 8	69.7	354.2		934.9	423.6	3,734.0 3,477.3	5.434.3	1 890 9	362.8	1 332 1
1981 1982	78.4 69.4	1,947.4 1,765.2	393.3 391.8	61.8 58.5	331.3 316.7	1,332.1 1,328.6 1,312.8 1,345.5 1,393.0 1,404.5 1,468.6 1,538.6	821.5 513.4	274.4 281.0	3,210.9	5,236.7 4,708.7	1,947.4 1,765.2	393.3 391.8	1,328.6 1,312.8
1983	32.0	1,601.0	396.6	58.7	321.5	1,345.5	430.8	425.9 452.4	2,979.0	4,612.1	1,703.2 1,601.0 1,739.8	396.6 439.3	1,312.6 1,345.5 1,393.0
1984 1985	37.2 45.3	1,739.8 1,925.5	439.3 416.7	73.5 73.3	373.5 375.8	1,393.0	481.2 410.5	452.4 435.6	3,213.0	4,990.1 5,096.1	1,739.8	439.3 416.7	1,393.0 1 404.5
1986	42.5	1,591.0	416.7 434.9 398.4	72.1	422.1	1,468.6	419.5 364.9	423.9	2,979.0 3,213.0 3,125.4 3,186.6 3,319.8	4,820.1	1,925.5 1,591.0	416.7 434.9 398.4	1,404.5 1,468.6 1,538.6
1987 1988	45.0 50.8	1,993.0 1,860.4	398.4 477.4	80.7 82.4	448.8 464.2	1,538.6	419.0 433.3	434.3 463.3	3,319.8 3,515.5	5,357.7 5,426.7	1,993.0 1,860.4	398.4 477.4	1,538.6 1 594 9
1989	66.4	1,860.4 2,047.8	477.4 469.0	90.0	464.2 507.8	1,633.3	422.6	445.2	3,567.7	5.682.0	1,860.4 2,047.8	469.0	1,594.9 1,633.3
1990 1991	84.2 89.5	2,101.6 2,208.3	449.9 436.0	72.0 67.5	534.7 508.1	1,607.3 1,569.1	403.0 284.9	438.8 389.2	3,505.6 3,254.8	5,691.3 5,552.6	2,101.6 2,208.3	449.9 436.0	1,607.3 1,569.1
1992	91.5 84.7	2.294.1	403.0	75.3	489.5	1,658.1	215.7	404.1	3,245.8	5.631.5	2,294.1 2,213.1	403.0	1 658 1
1993 1994	84.6	2,213.1 2,334.8	378.5 421.3	59.8 65.4	504.7 560.1	1,536.6 1,594.9 1,633.3 1,607.3 1,569.1 1,658.1 1,608.6 1,601.3	233.7 263.6	370.3 393.0	3,519.8 3,515.5 3,567.7 3,505.6 3,254.8 3,245.8 3,155.6 3,304.8 3,313.1 3,380.2	5,453.4 5,724.2	2 334 8	378.5 421.3	1,610.6 1,604.1 1,631.3 1,658.4
1995 1996	84.3 80.3	2,110.0	425.2 428.8	53.6 39.6	540.4 588.4	1,622.5 1,651.1	290.8 253.3	380.7 419.1	3,313.1	5,507.4 5,478.2	2,110.0 2,017.7	425.2 428.8	1,631.3
1997	82 7	2,017.7 2.185.0	428.8 463.4	32.4	588.4 585.1	1,651.1 1.673.1	253.3 134.7	419.1 403.5	3,380.2	5,478.2 5.559.9	2,017.7	428.8 463.4	1,658.4 1.680.5
1998	66.2 69.5	2,185.0 2,418.7 2,379.6	463.4 456.9 481.5	40.8	585.1 598.1	1,673.1 1,711.1 1,752.3	134.7 108.1	403.5 400.3	3,292.2 3,315.4 3,423.8	5,559.9 5,800.2	2,185.0 2,418.7 2,379.6	463.4 456.9	1,680.5 1,716.7 1,757.2
1999 2000	70.0	2,456.4	543.8	44.7 45.7	559.5 584.0	1,752.3	149.6 212.1	436.1 407.9		5,872.9 6,097.9	2,456.4	481.5 543.8	1,783.4
2001 2002	67.8 70.0	2,513.9 2,318.7	566.6 521.3	39.8 52.7	551.2 582.6	1,823.0	160.1 193.4	444.9 442.0	3,585.7	6,167.4 6,093.0	2.513.9	566.6 521.3	1,830.7 1,921.4
2003	69.5	2,317.1	480.3	53.8	565.4	1,777.9 1,823.0 1,912.4 1,860.8	147.2	412.5	3,571.5 3,585.7 3,704.4 3,520.1 3,670.8 3,741.1 3,786.5 3,795.1 3,553.5	5,906.6	2,318.7 2,317.1	480.3	1.910.8
2004 2005	68.9 67.4	2,462.2 2,304.5	547.0 563.8	55.0 46.8	597.7 593.1	1,881.9	174.7 213.4	414.5 423.8	3,670.8 3,741.1	6,201.9 6,113.0	2,462.2 2,304.5	547.0 563.8	1,954.1 1,979.7
2006	67.0	2 375 9	576.3	45.2	603.3	1,881.9 1,900.2 1,908.2 1,875.5 1,776.9	237 2	416.4	3,786.5	6 229 5	2 375 9	576.3	1 986 8
2007 2008	66.5 63.1	2,467.5 2,472.6	572.8 522.5	43.3 60.9	628.2 571.7	1,875.5 1,776.9	249.5 255.3	425.9 366.3	3,795.1 3,553.5	6,329.1 6,089.2	2,467.5 2,472.6	572.8 522.5	1,958.0 1,861.0
2009	52 4	2,391.4 2,325.4	502.0	61.0	555.6 435.2	1,732.8	242.3	311.7	3,405.4	5.849.2	2,391.4 2,325.4	506.8 528.5	1,815.7 1,799.7
2010 2011	55.0 55.3	2,325.4 2,196.3	502.0 525.2 532.0	63.4 63.4	435.2 433.2	1,732.8 1,672.3 1,626.3	251.0 186.9	301.1 332.5	3,405.4 3,248.2 3,174.3	5,628.6 5,425.9	2,325.4 2,196.3	528.5 540.2	1,799.7 1,750.2
2012	43.8	2,456.4 2,480.8	509.5	55.5	435.3	1,611.6	167.1	300.4 324.7	3,079.3	5,579.5	2,456.4	518.0	1,731.6 1,753.2
2013 2014	43.8 38.2 39.5	2.409.6	516.8 544.2	54.9 53.6	446.2 456.0	1,611.6 1,629.4 1,632.7	124.2 84.5	324.7 312.5	3,096.2 3.083.5	5,615.2 5,532.6	2,480.8 2.409.6	<i>532.7</i> <i>559.9</i>	1,753.2 1.758 0
2015	31.0	2,384.1	549.4	53.6	491.6	1 681 <i>4</i>	84.5 116.7	324.7 312.5 308.5 R 329.3 R 332.4 R 336.5 R 327.6 R 302.0	3,079.3 3,096.2 3,083.5 3,201.1 R 3,315.2 R 3,395.3 R 3,412.7	5 616 1	2,409.6 2,384.1	566.1	1,758.0 1,811.0
2016 2017	32.1 33.7	2,248.9 2,191.0	537.0 555.6	57.8 55.7	532.3 565.7	1,713.0 1,720.8 1,716.3	145.8 165.0	R 332.4	R 3,315.2	R 5,596.3 R 5,619.9	2,248.9 2,191.0	559.4 577.3	1,844.2 1,853.5 1,847.8
2018	33.3	2 209 8	556.2	58.4	576 4	1,716.3	168.9	R 336.5	R 3,412.7		2 209 8	<i>575.7</i>	1,847.8
2019 2020	30.9 28.0	2,218.7 R 2,153.3	548.5 509.3	61.5 58.2	588.4 337.6	1,688.1 1,357.8	184.4 126.1	R 302.0	R 2 691 0	R 5,648.1 R 4,872.3	2,218.7 R 2,153.3	566.7 _ 528.0	1,819.9 1,464.7
2021 2022	28.2 30.0	2,172.8 2,130.9	R 559.3 555.5	60.6 60.0	400.1 470.0	1,494.9 1,479.7	177.7 182.1	R 453.5 511.8	R 2,989.3 3,044.7	R 5,190.3 5,205.7	2,172.8 2,130.9	R 567.8 563.8	1,613.5 1,597.6
2022	30.0	2,130.9	555.5	0.00	470.0	1,479.7	102.1	511.8	3,044.7	5,205.7	2,130.9	303.8	1,597.6

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, California (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	(s) 3.2	R 59.5	82.1	NA	NA	NA	NA	82.1	R <sub>0.1</sub>	NA	NA	R 141.7	R 45.7 R 94.9 R 260.5 R 321.8 R 349.0 R 323.2 R 438.5	-1.4	R 3,360.7
1965 1970	3.2 34.4	R 104.1 R 129.9	97.5 116.8	NA NA	NA NA	NA NA	NA NA	97.5 116.8	R 0.6 R 1.8	NA NA	NA NA	R 202.3 R 248.6	H 94.9	(s) (s)	R 4,267.1 R 5,349.0
1971	34.4 38.1 34.3	H 133 1	119.2	NA NA	NA NA	NA	NA NA	119.2	R 1 9	NA NA	NA NA	R 254.2	R 321.8	(S)	R 5,585.8 R 5,709.7
1972	34.3	H 108 3	119.2 127.6	NA	NA	NA	NA	127.6	H S O	NA	NA	H 241.0	R 349.0	Ò.Ó	R 5,709.7
1973 1974	28.7 41.3	R 132.2 R 158.4	130.1 134.7	NA NA	NA NA	NA NA	NA NA	130.1 134.7	R 6.7 R 8.4	NA NA	NA NA	R 269.1 R 301.5	n 323.2 R 438 5	(s) 0.0	R 5,890.3 R 5,651.5
1975	66.9	H 136 8	127.5	NA NA	NA NA	NA	NA NA	127.5	Raaa	NA NA	NA NA	H 275.4	R 539.6	0.0	H 5,852.1
1976 1977	53.1	H 70 4	144.8	NA	NA	NA	NA	144.8	R 12.3	NA	NA	H 236 2	R 567.2	0.0	H 6.017.6
1977 1978	87.4 83.8	R 48.6 R 126.9	152.0 160.3	NA NA	NA NA	NA NA	NA NA	152.0 160.3	<sup>n</sup> 12.2 R 10.2	NA NA	NA NA	R 212.8 R 297.4	n 382.1 R 563.8	0.0 0.0	R 6,233.0 R 6,313.6
1979	95.3	H 1157	168.4	NA	NA	NA	NA	168.4	R 13.3	NA	NA	R 297 4	R 470.4	0.0	H 6 566 0
1980 1981	53.7 35.4	R 139.1	115.6 131.7	NA	NA	NA	NA	115.6	R 12.3 R 12.2 R 10.2 R 13.3 R 17.3 R 19.4 R 16.5 R 20.7 R 26.2	NA NA	NA	R 272.1 R 254.0	R 539.6 R 567.2 R 382.1 R 563.8 R 470.4 R 622.9 R 656.9 R 834.6 R 870.3 R 868.3	0.3	R 6,383.2 R 6,183.0
1981 1982	35.4 41.4	R 101.6 R 171.4	131./	1.4 3.8	NA NA	NA NA	0.0 0.0	133.1 127.1	<sup>n</sup> 19.4 R 16.5	NA NA	NA NA	R 315.0	n 656.9 R 834 6	(s)	H 5 900 9
1983	61.2	H 10// 1	123.3 144.8	3.9	NA	NA	0.0	148.6	B 20.7	NA	(s) (s)	R 363 5	R 870.3	(s) 0.1	R 5,907.2 R 6,351.3 R 6,439.2
1984 1985	153.4	n 147.3	162.7	3.1	NA	NA	0.0	165.9	R 26.2 R 31.4	0.1		R 339.4 R 306.8	R 868.3	0.2	R 6,351.3
1985	209.6 277.3	R 108.2 R 141.5	165.3	1.5 1.4	NA NA	NA NA	0.3 0.3	167.1 129.1		0.1 0.1	(s)	n 306.8 R 305.3	R 010.5	13.8 12.9	R 6,439.2
1986 1987	317.3	H 83.8	127.4 155.5	2.1	NA	NA	0.3	157.9	R 36.2	0.1	(s)	R 305.3 R 278.0	R 815.7	26.4	R 6,335.1 R 6,795.2
1988	327.2	R 80.1	164.6	4.1	NA	NA	0.3	169.0	R 34.5 R 36.2 R 34.5 R 47.6 R 50.6 R 51.7	0.1	(s) P 7.1	H 283.7	R 955.8	24.9	H 7.018.3
1989 1990	344.1 346.0	R 105.1 R 81.2	231.9 218.4	3.7 3.9	NA NA	NA NA	0.3 0.2	235.9 222.6	R 47.6	R 17.8 R 19.3 R 20.3 R 20.6	<sup>□</sup> /.1 R o /	R 413.5 R 383 1	R 684 7	14.4 15.8	R 7,265.0
1991	330.7	H 7/1 Q	214.0	4.9	NA	NA	0.3	219.2	R 51.7	R 20.3	R 9.9	R 383.1 R 376.0	R 741.7	10.2	R 7,120.8 R 7,011.2
1992	369.0	R 68.8	225.7	0.5	NA	NA	0.3	226.6	n 51 8	R 20.6	R 9.4 R 9.8 R 9.8 R 10.2 R 11.5 R 10.5 R 10.7 R 9.4 R 11.0 R 12.0	H 377 5	R 919.5 R 815.7 R 955.8 R 810.9 R 684.7 R 741.7 R 635.5 R 505.8 R 535.1 R 587.1 R 681.7 R 802.1 R 777.7 R 771.3	7.1	H 7 020 6
1993 1994	331.7 352.8	R 138.2 R 78.5	191.7 192.7	2.0 2.8	NA NA	NA NA	0.3 0.3	194.0 195.9	R 52.5 R 48.3 R 41.0	R 20.6 R 21.5 R 21.6 R 21.6 R 21.6 R 20.6 R 20.0 R 19.1	T 10.2 R 11.6	R 416.0 R 355.8	<sup>n</sup> 507.8 R 535.1	6.7 7.0	R 6,715.7 R 6,974.9
1995	317.8	R 163.9	172.9	8.8	NA	NA	0.3	182.0	R 41.0	R 21.6	R 10.5	H // 10 /	R 587.1	5.9	R 6,837.2 R 6,926.3
1996	358.1	R 152.7 R 140.1	167.6	7.4	NA	NA	0.1	175.1	R 44.2 R 45.7	R 21.6	R 10.5	R 404.1 R 376.5 R 392.3	R 681.7	5.9 4.2 4.5	R 6,926.3
1997 1998	320.2 362.9	R 169.1	151.2 141.1	7.4 5.6	NA NA	NA NA	0.2 0.3	158.9 146.9	R 46.3	" 21.1 R 20.6	110.7 R q A	113/6.5 R 302 3	1 802.1 R 777.7	4.5 -2.1	R 7,063.2
1999 2000	348.7	R 139.0 R 130.8	150.6 158.3	4.8 5.5	NA	NA	0.2 0.3	155.7	R 46.4 R 44.0	R 20.0	P 11.0	R 372.1 R 370.1	R 771.3	0.6	R 7,331.1 R 7,365.7 R 7,504.6
2000	366.8	H 130.8	158.3	5.5	ŅĄ	NA	0.3	164.1	H 44.0	H 19.1	H 12.0	H 370.1	H 658.2	11.5	H 7,504.6
2001 2002	346.9 358.7	R 87.1 R 106.3	156.1 162.1	7.6 9.0	(S)	NA NA	0.3 0.4	164.1 171.5	R 43.8 R 46.8	'' 18.5 R 17.8	" 11.9 R 13.0	11 325.5 R 355 4	11 /59.9 R 781 5	10.4 6.4	R 7,610.1 R 7,595.0
2003	371.0	H 12/1 1	155.3	50.0	(s)	NA	0.5	205.8	R 46.2 R 46.7	R 17.3	P 13.3	R 325.5 R 355.4 R 406.7 R 423.6	R 759.9 R 781.5 R 755.8 R 890.3	14.1	R 7,454.1 R 7,835.7
2004	315.6 377.3	R 116.5 R 135.2	155.8	72.2	(s) (s) (s) (s) (s)	NA NA	0.5	228.4	H 46.7	H 17.2	H 14.7	H 423.6	H 890.3	4.2	H 7,835.7
2005	377.3	H 163 9	145.6 138.8	79.5 78.6	0.2	NA NA	0.9	226.2 220.1	R 46.6 R 45.9 R 46.5	R 18.5 R 17.3 R 17.2 R 16.8 R 17.5 R 18.7 R 20.3 R 20.7 R 22.6 R 24.9 R 29.6 R 41.4 R 67.4 R 88.8	H 14.5	R 439.3 R 464.1	R 793.5 R 750.6 R 796.4 R 906.0 R 815.5 R 796.9 R 807.7 R 766.9 R 768.9	18.9 8.1	R 7,742.0 R 7,785.8 R 7,923.3
2006 2007	375.4	H QQ 2	137.8	82.5	0.6	NA	2.3 5.1	226.0	R 46.5	R 18.7	R 19.1	R 403 5	R 796.4	18.8	R 7,923.3
2008 2009	339.5 332.2	R 82.3 R 95.2	140.8	84.1	0.5	NA NA	5.3 2.7 3.3	230.8	R 46.2 R 45.9 R 45.0	H 20.3	H 18.4	R 397.9 R 419.9	H 906.0	16.0	<sup>n</sup> 7.748.6
2009	336.6	R 114.1	152.0 159.4	82.8 127.3	0.6 0.5	NA NA	3.3	238.2 290.5	R 45.9	R 22.6	H 20.7	R 493.0	R 796 9	8.6 10.5	R 7,425.4 R 7,265.5
2011	383.6	H 145 2	157.8	123.9	1.6	8.1	8.4	299.7	H 45.0	R 24.9	R 26.4	H 541.2	R 807.7	20.1	R 7,265.5 R 7,178.5
2012 2013	193.9 187.2	R 91.6 R 81.1	156.1 165.6	120.0 123.8	2.5 7.6	9.7 38.6	8.1 8.0	296.4 343.7	R 44.9 R 44.1	H 29.6	H 33.3	R 495.6 R 554.0	H 766.9	29.4 37.4	R 7,065.3 R 7,162.6
2013	177.7	R 56.4	166.8	125.3	7.6 8.5	36.6 38.5	10.2	349.3	R 43.4	R 67 4	R 44 3	H 560 8	R 760.9	42.0	H 7 073 5
2015	193.5	H // 7 1	139.6	129.6	16.1	38.5 48.4	10.5	344.1	R 42 7	R 88.8	R 11.9 R 13.3 R 14.7 R 14.7 R 14.7 R 16.7 R 19.1 R 18.4 R 19.9 R 20.7 R 26.4 R 33.3 R 43.7 R 44.3 R 41.7 R 44.8 R 46.9 R	R 564.5	R 749.2	46.5	R 7 160 0
2016	197.8	R 98.8 R_144.5	129.6 R 130.6	131.3	20.8 21.7	57.0 _ 61.6	10.6	349.3	R 41.2 R 41.6	R 110.2 R 137.6 R 154.5 R 166.7	H 46.1	R 645.6 R 725.4	H 676.1	52.5	R 7,168.2 R 7,176.8
2017 2018	187.2 190.4	Raga	133.4	132.7 131.5	23.5	R 56.9	11.3 11.6	357.9 R 357.0	H 42.0	R 154.5	H 43.8	R 691.2	R 777 6	48.6 2.5	H 7.317.3
2019 2020	168.8	H 130 0	R 139.4	131.8	27.0	96.9	10.3	R 405 4	R 39.4	R 166.7	R 46.9	H 789.2	R 636.5	16.1	R 7 258 7
2020 2021	169.8 R 171.8	R 72.9 R 50.1	133.4 R 139.4 R 144.4 R 145.0	106.9	34.0 37.0	104.4	6.0	R 395.7	R 40.9 R 40.1	R 181.1 R 205.2	H 46.3	R 737.0	R 749.2 R 676.1 R 595.7 R 777.6 R 636.5 R 672.6 R 624.0	11.0	R 6,462.8 R 6,808.1
2021	1171.8	11 50.1 60.2	123.1	118.7 117.9	37.0 35.9	156.5 217.3	5.1 4.4	R 462.3 498.6	40.1	232.9	1151.8 49.9	R 809.5 882.0	600.4	12.5 10.9	6,882.4
	.00.0		120.1	117.0	00.0	217.0	7.7	100.0	70.0	202.0	-10.0	552.0	000ғ	10.0	5,502.⊣

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, California

						Petroleum				Ultradian	Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	<b>3</b>			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total h,m
960	1,342	935	26,563	8,888	25,818	137,025	56,644	46,536	301,475	(s)					57,270			
970	2,327	1,490	39,114	15,532	59,614	214,064	48,735	52,329	429,388	(s)					118,645			
980	2,669	1,289	60,696	19,197	62,224	253,593	86,038	69,430	551,178	0					167,567			
990 000	2,899 2,015	1,408 1,616	76,969 92,556	19,992 12,558	94,907 103,001	305,983 342,890	56,926 33,648	71,345 62,571	626,122 647,226	7 8					211,093 244,057			
005	1,976	1,559	96,661	12,335	104,612	381,301	33,936	65,346	694,230	5					254,250			
06	1,872	1,545	99,104	12,090	106,403	383,178	37,715	64,483	702,973	7					262,959			
07	1,818	1,561	98,855	11,505	110,794	380,780	39,662	65,742	707,338	13					264,235			
08	1,688	1,547	90,220	16,341	100,836	364,468	40,605	56,531	669,001	0					268,155			
09	1,330	1,520	87,618	16,682	97,985	356,713	38,526	47,936	645,460	(s)					259,584			
10	1,419	1,537	91,448	16,507	76,755	355,172	39,912	47,298	627,091	7					258,531			
11	1,536	1,537	93,562	16,505	76,404	345,678	29,731	52,370	614,252	5					261,942			
12	1,323	1,548	89,754	14,441	76,770	342,083	26,576	48,481	598,105	3					259,538			
13	1,383	1,590	92,378	14,303	78,696	346,483	19,753	52,832	604,446	5					261,332			
14	1,399	1,508	97,091	13,959	80,424	347,508	13,448	50,817	603,247	4					262,585			
5 6	1,334 1,389	1,495 1,507	98,183 97,108	13,951	86,709 93,873	358,108 364,832	18,556 23,198	50,228 R 52,412	625,736 R 646,476	3 12					261,170 256,847			
7	1,464	1,516	100,209	15,053 14,508	99,777	366,820	26,237	R 52,981	R 660,533	19					257,268			
8	1,438	1,523	99,904	15,198	101,663	365,610	26,865	R 53,549	R 662,789	11					255,224			
9	1,323	1,577	98,339	16,026	103,769	360,243	29,330	R 52,313	R 660,020	14					250,379			
20	1,211	R 1,468	91,665	15,152	59,550	289,918	20,054	R 48,245	R 524,584	6					250,175			
21	1,223	1,455	R 98,441	15,791	70,561	319,514	28,262	R 75,832	R 608,402	9					247,250			
22	1,322	1,414	97,745	15,613	82,887	316,425	28,960	86,398	628,028	8					251,869			
									Trillion	Btu								
960	35.9	967.5	154.7	33.9	140.7	719.8	356.1	280.6	1,685.8	(s)	82.1	NA	NA	NA	195.4	2.966.7	R 394.0	R 3.3
70	61.8	1,570.7	227.8	57.9	332.9	1,124.5	306.4	316.6	2,366.2	(s)	116.3	NA	NA	NA	404.8	4,519.8	R 829.2	R <sub>5</sub> ,
80	66.2	1,345.1	353.6	69.7	348.7	1,332.1	540.9	423.6	3,068.6	0.0	115.4	NA	NA	NA	571.7	5,167.0	R 1,216.3	R 6,
90	65.3	1,452.7	448.3	72.0	534.7	1,607.3	357.9	433.8	3,454.0	R (s)	146.9			R 18.0	720.2	R 5,862.5	R 1,258.4	R 7,
0	47.9	1,545.2	538.6	45.7	584.0	1,783.4	211.5	388.0	3,551.2	R (s)				H 17.4	832.7	H 6,085.8	R 1,418.9	R <sub>7</sub>
15	46.7	1,595.1	562.4	46.8	593.1	1,979.7	213.4	401.7	3,797.1	R (s)	72.5			R 14.9	867.5	R 6,397.2	R 1,344.8	R <sub>7</sub>
6	45.1	1,580.1	575.1	45.2	603.3	1,986.8	237.1	396.0	3,843.5	R (s)	63.9	2.3	2.1	R 15.9	897.2	R 6,450.6	R 1,335.2	R <sub>7</sub>
7	43.1	1,607.1	571.8	43.3	628.2	1,958.0	249.4	405.5	3,856.2	R (s)	66.3		2.2	R 16.8 R 18.0	901.6	R 6,499.1	R 1,424.2 R 1,492.7	R <sub>7</sub>
8 9	39.4 31.3	1,590.2 1,560.6	521.5 506.2	60.9 61.0	571.7 555.6	1,861.0 1,815.7	255.3 242.2	348.8 294.9	3,619.1 3,475.6	0.0 (s)	66.2 74.6		2.2 2.0	R 18.5	914.9 885.7	R 6,255.9 R 6,051.0	R 1,378.7	R <sub>7</sub>
0	33.2	1,570.1	528.1	63.4	435.2	1,799.7	250.9	288.7	3,366.0	R (s)	74.6 80.4			R 20.0	882.1	R 5,957.1	R 1,311.2	R 7
1	35.6	1,566.1	539.9	63.4	433.2	1,750.2	186.9	322.0	3,295.5	(s)	88.8		2.1	R 22.0	893.7	R 5,912.2	R 1,264.8	R <sub>7</sub>
2	30.7	1,579.5	517.6	55.5	435.3	1,731.6	167.1	298.3	3,205.4	(s)	80.9		2.1	R 25.1	885.5	R 5,817.2	R 1,244.3	R 7
3	31.9	1,631.4	532.4	54.9	446.2	1,753.2	124.2	324.4	3,235.3	R (s)	91.4		2.1	R 28.7	891.7	R 5,920.5	R 1,211.8	R 7
ļ	32.6	1,550.6	559.5	53.6	456.0	1,758.0	84.5	312.2	3,224.0	(s)	88.6	10.2		R 33.8	895.9	R 5,837.9	R 1,204.4	R 7
5	31.0	1,550.3	565.7	53.6	491.6	1,811.0	116.7	308.5	3,347.0	(s)	R 64.0		2.1	R 38.6	891.1	R 5,934.6	R 1,187.5	R 7
3	32.1	1,560.2	559.1	57.8	532.3	1,844.2	145.8	R 329.3	R 3,468.5	R (s)	_ 63.7		2.1	R 46.5	876.4	R 6,060.1	R 1,052.7	R 7
7	33.7	1,569.8	576.9	55.7	565.7	1,853.5	165.0	R 332.4	R 3,549.3	R <sub>0.1</sub>	R 65.7	11.3	2.1	R 54.9	877.8	R 6,164.7	R 950.5	R <sub>7</sub>
8	33.3	1,574.4	575.3	58.4	576.4	1,847.8	168.9	R 336.5	R 3,563.3	R <sub>(s)</sub>	R 67.8		2.1	R 63.0	870.8	R 6,186.3	R 1,070.1	R <sub>7</sub>
9	30.9	1,631.1	566.3	61.5	588.4	1,819.9	184.4	R 327.6	R 3,548.1	R (s)	72.6		2.1	R 70.7	854.3	R 6,220.3	R 932.8	R <sub>7</sub>
0	28.0	R 1,517.8	527.6	58.2	337.6	1,464.7	126.1	R 302.0	R 2,816.2	R (s)	R 83.2		2.1	R 78.5	853.6	R 5,385.6	R 957.5	H <sub>6</sub>
21	28.2	1,505.3	R 567.4	60.6	400.1	1,613.5	177.7	R 453.5	H 3,272.9	R (s)	H 86.3		2.1	R 87.2	843.6	R 5,830.8	R 949.1	H 6,
22	30.0	1,462.8	563.5	60.0	470.0	1,597.6	182.1	511.8	3,384.9	(s)	65.8	4.4	2.1	101.9	859.4	5,911.5	940.4	6,8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, California

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL °	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total e,h
1960	4	365	485	3,302	15	3,802				14,975			
1965	6	365 489	427	4,454	31	4,911				23,800			
1970	61	553 631	500 493	4,517	166	5,182				35,777			
1975	0	631	493	2,367	211	3,071				44,257			
1980	1	529 527	94	4,300	18	4,413				52,011			
1985 1990	12	527 515	144 202	4,677	73 88	4,893 5,316				57,501 66,575			
1990	5 17	477	175	5,026 4,269	81	4,525				66,575 68,783			
2000	3	517	241	4,657	281	5,179				79,241			
2005	2	484	156	7,365	304	7,824				85,610			
2006	(s)	492	153	6,430	287	6,870				89,836			
2007	` Ó	492	156 153 96	6,819	152	7,067				89.158			
2008	0	489	145	8,372	81	8,598				91,231 89,799			
2009 2010	0	481	389 162	7,859 8,260	172	8,419				89,799			
2010	0	495 513	162 109	8,260 7,828	144 110	8,565 8,047				87,257			
2011	0	478	64	7,026 5,917	47	6,029				88,398 90,110			
2013	0	482	96	5,942	45	6,082				89,242			
2014	0	397	94	4 896	59	5 049				89.361			
2014 2015	ŏ	401	94 77	4,896 5,500	59 44	5,620				89,361 89,386			
2016	0	412	76	5.990	83	6,149				88,311			
2017	0	431	71	5,753	51 51	5,875				90,124			
2018	0	424	81	6,269	51	6,400				89,100			
2019	0	465	83	6,755	74	6,912				87,524			
2020 2021	0 0	458 449	74 93	6,174 6,312	73 62	6,322 6,468				94,935 90,284			
2021	0	433	88	5,710	52	5,850				89,542			
-022		400		0,710	<u> </u>	0,000	Trillian Dt.			00,042			
							Trillion Btu						
1960	0.1	377.6	2.8 2.5 2.9 2.9	12.7	0.1	15.6	25.3	NA	NA	51.1	469.6	R 103.0	R 572.6
1965	0.1	524.9	2.5	17.1	0.2	19.8	21.7	NA	NA	81.2	647.6	R 159.7 R 250.0	R 807.3 R 1,001.2 R 1,166.7
1970	1.3	582.4 666.7	2.9	17.3	0.9	21.2	24.2	NA	NA NA	122.1	751.2	R 308.3	11,001.2 B 1 100.7
1975 1980	0.0 (s)	552.4	2.9	9.1 16.5	1.2 0.1	13.2 17.2	27.5 53.0	NA NA	NA NA	151.0 177.5	858.4 800.0	R 377 5	1,100.7 R 1 177 6
1985	0.3	547.8	0.6 0.8	18.0	0.4	19.2	91.5	NA NA	NA NA	196.2	855.0	R 377.5 R 398.7	R 1,170.7 R 1,177.6 R 1,253.7 R 1,267.4 R 1,177.1 R 1,300.6
1990	0.1	531.0	1.2	19.3	0.5	21.0	73.2	0.2	18.0	227.2	870.6	R 396.9 R 364.8 R 460.7	R 1.267.4
1995	0.4	482.7	1.0	16.4	0.5	17.9	56.6	0.2	18.0 P 19.8	227.2 234.7 270.4	R 812.4 R 839.9	R 364.8	R 1,177.1
2000	0.1	494.2	1.4	17.9	1.6	20.9	37.0	0.2	H 17 3	270.4	R 839.9	R 460.7	R 1,300.6
2005	(s)	494.9	0.9	28.3	1.7	30.9	25.9	0.2	R 14.4	292 1	R 858.4	H 452 8	n 1 311 2
2006 2007	(s)	503.0 506.8	0.9	24.7 26.2	1.6	27.2 27.6	23.0 25.4	0.2 0.2	R 15.1 R 15.8	306.5 304.2	R 874.9	R 456.1 R 480.6	R 1,331.1 R 1,360.5
2007	0.0	506.8	0.6	26.2	0.9	27.6	25.4	0.2	P 15.8 P 16.4	304.2	R 880.0	R 507.9	R 1,360.5 R 1,400.4
2008 2009	0.0 0.0	502.8 493.7	0.8 2.2	32.2 30.2	0.5 1.0	33.5 33.4	28.4 37.3	0.2 0.3	R 16.6	311.3 306.4	R 892.6 R 887.6	R 476.9	11,400.4 B 1 264.6
2009	0.0	505.5	0.9	31.7	0.8	33.5	40.0	0.3	R 17.5	297.7	R 894.5	R 442.5	R 1,364.6 R 1,337.1
2011	0.0	522.4	0.6	30.1	0.6	31.3	38.8	0.3	R 18.7	301.6	R 913 1	R 426 8	R 1 339 9
2011 2012	0.0 0.0	522.4 487.6	0.4	22.7	0.6 0.3	31.3 23.4	38.8 32.4	0.2 0.3	R 18.7 R 20.1 R 22.5	301.6 307.5	R 913.1 R 871.3	R 426.8 R 432.0	R 1.303.3
2013	0.0	494.4	0.6	22.8	0.3	23.6	42.3	0.3	R 22.5	304.5	H 887.5	H 413.8	R 1,301.3
2014	0.0	408.8	0.5	18.8	0.3	19.7	42.8 R 22.1	0.3	H 26 1	304.9	R 802.5	R 🚜 na a	R 1,339.9 R 1,303.3 R 1,301.3 R 1,212.4 R 1,201.3
2015	0.0	415.9	0.4	21.1	0.2	21.8	H 22.1	0.3	H 20 Q	305.0	H 794.9	R 406.4	H 1,201.3
2016 2017	0.0	426.4	0.4	23.0 22.1	0.5 0.3	23.9 22.8	R 20.7 R 20.1	0.3 0.3	R 35.5 R 40.6	301.3 307.5	R 808.1 R 837.6	R 361.9 R 333.0	R 1,170.0 R 1,170.5
201 <i>7</i> 2018	0.0 0.0	446.3 438.2	0.4 0.5	22.1 24.1	0.3 0.3	22.8 24.8	R 20.1	0.3 0.3	R 40.6 R 45.1	307.5 304.0	R 837.6 R 834.7	R 373.6	11,170.5 B 4 000.0
2018	0.0	438.2 480.5	0.5 0.5	24.1 25.9	0.3	24.8	R 27.2	0.3	R 50.3	298.6	R 883.7	R 226 1	R 1 200.2
2019	0.0	474.0	0.5	23.7	0.4	24.6	R 16 6	0.3	R 55.3	323.9	R 894.6	R 326.1 R 363.4 R 346.6	R 1,208.2 R 1,209.7 R 1,258.0
	0.0	464.8	0.4	24.2	0.4	25.1	R 16.6 R 17.9	0.3	R 55.3 R 60.9	308.0	R 877.1	R 346 6	R 1,223.6
2021	0.0					22.7			72.6			334.3	

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, California

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	3	109	637	1,142	46	1,406	7,284	10,515	NA NA			NA	22,039			
1965	5	164	560	1.541	95	1.309	6,200	9.705	NA			NA	29,917	==	==	==
1970 1975	48 0	210 240	657 647	1,562 819	510 650	1,482 1,622	8,631 4,377	12,842 8,115	NA NA			NA NA	40,634 57,846			
1980	3	258 205	3,225	1,487	222 353	1,795	6,811	13,540	NA	==		NA	63,465			
1985 1990	41 20	205 285	3,416 4,094	1,618 1,739	353 19	1,759 1,928	35 882	7,181 8,661	NA 7			NA 13	73,592 88.311			 
1995	116	279	3,164	1,477	27	236	4	4,907	4			22	86,032			
2000 2005	21 18	246 233	3,104 1,968	1,611 2,416	52 59	237 274	1	5,005 4,717	8		 	43 132	99,900 117,551			 
2006	1	244	1,481	1,792	54	285	0	3,613	7			176	121,255			
2007 2008	0	251 251	1,834 2,847	2,014 2,600	31 14	280 277	0	4,158 5,738	13 0			234 359	123,690 125,026			
2008	0	248	2,847 3,511	2,000	20	268	0	5,738 5,876	(s)		 	421	121,105			
2010	0	248	4,724	2,246	33	263	0	7,266	7			509	121,152			
2011 2012	0	246 253	4,191 3,768	2,194 2,228	25 9	260 256	0	6,670 6,260	5 3			645 937	122,781 121,792			
2013	Ŏ	255	3,492	2,118	8	268	ŏ	5,885	5			1,170	116,858			
2014 2015	0	238 236	3,346 3,641	2,531 2,083	9 8	257 10,019	1	6,143 15,753	4			1,436 1,543	119,494 118,384			 
2016	ő	237	3,674	2,856	14	10,049	i	16,594	12			1,825	116,775			
2017 2018	0	237 248	3,736 3,608	2,863 3,262	10 8	10,190 10,377	0	16,800 17,254	19 11		 	2,455 3,336	117,682 115,786			 
2018	0	248 256	3,477	3,458	8	10,377	0	17,401	14			3,336	114,279			
2020	0	233	2,700 R 3,827	3,258	.8	10,512	0	16 478	6			4,271	107,006			
2021 2022	0	240 247	3,827	3,681 3,669	10 8	10,604 10,896	0	R 18,122 18,126	9 8			4,840 5,531	108,762 114,141			
								Tri	lion Btu			<u> </u>	-			
1960	0.1	112.7	3.7	4.4	0.3	7.4	45.8 39.0	61.5	NA	0.5	NA	NA	75.2	250.0	R 151.6	R 401.6
1965 1970	0.1 1.1	175.5 221.3	3.3 3.8	5.9 6.0	0.5 2.9	6.9 7.8	39.0 54.3	55.6 74.8	NA NA	0.4 0.5	NA NA	NA NA	102.1 138.6	333.6 436.2	R 200.8 R 284.0	R 534.4 R 720.2
1975	0.0	253.7	3.8	3.1	3.7	8.5	27.5	46.6	NA	0.5	NA	NA	197.4	498.2	H 403 0	H 901 2
1980 1985	0.1 1.0	269.4 212.9	18.8 19.9	5.7 6.2	1.3 2.0	9.4 9.2	42.8 0.2	78.0 37.6	NA NA	1.3 2.2	NA NA	NA NA	216.5 251.1	565.3 504.8	R 460.7	R 1,026.0 R 1,015.0
1990	0.5	294.2	23.8	6.7	0.1	10.1	5.5	46.3	R (s)	8.4	0.3	R (s) R 0.1	301.3	R 651.1	R 510.3 R 526.4	H 1 177 5
1995 2000	2.7 0.5	281.8 235.7	18.4 18.1	5.7 6.2	0.2 0.3	1.2 1.2	(s)	25.5 25.8	(s) R (s)	11.4 10.8	0.4 0.6	R 0.1 R 0.1	293.5 340.9	R 615.4 R 614.3	R 456.2 R 580.8	R 1,071.6 R 1,195.1
2005	0.5	238.5	11.5	9.3	0.3	1.4	(s) 0.0	25.8 22.5	R/e\	9.6	0.6	R 0.5	401.1	R 673 3	R 621.8	H 1.295.0
2006	(s)	250.0	8.6	6.9	0.3	1.5	0.0	17.3	H (a)	10.4	0.7	R 0.6	413.7	R 692.7	R 615.7	R 1 308 4
2007 2008	0.ó 0.0	258.4 258.0	10.6 16.5	7.7 10.0	0.2 0.1	1.4 1.4	0.0 0.0	20.0 27.9	R (s) 0.0	9.4 9.5	0.6 0.5	R 0.8 R 1.2	422.0 426.6	R 711.3 R 723.8	R 666.7 R 696.0	R 1,378.0 R 1,419.7
2009	0.0	254.5	20.3	8.0	0.1	1.4	0.0	29.7	(s)	10.6	0.6	H14	413.2	H 710.0	R 696.0 R 643.2	H 1.353.2
2010 2011	0.0 0.0	253.3 250.9	27.3 24.2	8.6 8.4	0.2 0.1	1.3 1.3	0.0 0.0	37.4 34.1	R (s)	10.5 17.4	0.6 0.7	R 1.7 R 2.2	413.4 418.9	R 716.9 R 724.1	R 614.4 R 592.9	R 1,331.3 R 1,317.0
2012	0.0	258.3	21.7	8.6	(s)	1.3	0.0	31.6	_ (s)	16.8	0.6	R 3.2	415.6	R 726.1	H 583 9	R 1 310 0
2013	0.0	261.5	20.1	8.1	(s) (s) 0.1	1.4	0.0	29.7	R (s)	17.4	0.6	R 4.0 R 4.9	398.7	R 711.9 R 705.4	R 541.9	<sup>n</sup> 1 253 8
2014 2015	0.0 0.0	244.4 244.5	19.3 21.0	9.7 8.0	0.1 (s)	1.3 50.7	(s) (s)	30.4 79.7	(s) (s)	17.3 R 14.9	0.6 0.6	R 5.3	407.7 403.9	H 748.9	R 548.1 R 538.3	R 1,253.5 R 1,287.2
2016	0.0	245.3	21.1	11.0	0.1	50.8	(s) 0.0	83.0	R (s)	14.3	0.6	R62	398.4	R 7/18 N	R 478 6	H 1 226 6
2017 2018	0.0 0.0	245.8 256.3	21.5 20.8	11.0 12.5	0.1 (s)	51.5 52.4	0.0 0.0	84.1 85.8	R 0.1 R (s)	13.1 13.1	0.6 0.6	R 8.4 R 11.4	401.5 395.1	R 753.6 R 762.3	R 434.8 R 485.4	R 1,188.3 R 1,247.8
2019	0.0	264.7	20.0	13.3	(s)	52.8 53.1	0.0	86.2	H (s)	13.0	0.6	H 12 0	389.9	H 767 /	H 425 7	H 1 103 1
2020 2021	0.0 0.0	240.5 248.3	15.5 22.1	12.5 14.1	(s) 0.1	53.1 53.5	0.0 0.0	81.2 89.8	R (s) R (s)	12.8 12.9	0.6 0.6	R 14.6 R 16.5	365.1 371.1	R 714.8 R 739.3	R 409.6 R 417.5	R 1,124.4 R 1,156.8
2021	0.0	255.2	20.5	14.1	(s)	55.0	0.0	89.6	(s)	13.0	0.6	18.9	389.5	766.9	426.2	1,193.1
-					.,											

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, California

					Petrol	eum			Headar	Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline c	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		illion :Wh	End use f,k	energy losses	Total <sup>f,k</sup>
1960 1965	1,313 2,361	451 529	10,127 13,002	4,231 4,826	2,851 2,245	10,750 11,846	38,766 41,823	66,725 73,742	(s) (s)				NA NA	20,190 28,904			
1965	2,361	711	8,510	9,147	1,942	12,121	47,012	78,732	(S)				NA NA	42,169			
1975	2,151	666	10,519	15,688	1,338	8,308	51,705	87,558	0				NA	46,053			
1980	2,665	486	15,576	12,887	1,698	12,554	66,101	108,816	0				NA	51,888			
1985 1990	1,889 2,874	433 588	17,779 17,076	12,977 12,304	3,065 3,163	18,732 1,838	67,209 67,262	119,763 101,642	0				NA 3	52,972 55,892		==	
1995	2,485	698	11,664	8,489		1,467	56,088	80,556	ő				5				
2000	1,992	841	18,686	5,948	1,971	108	58.589	85,302	0				9	64,311			
2005	1,956	822	13,230	1,752	5,375	11	61,985	82,354	0				29	50,242			
2006 2007	1,870 1,818	792 798	13,861 11,461	3,000 1,913	5,503 4,448	102 11	61,277	83,743 80,464	0				52 71	50,991			
2008	1,688	798 788	12,718	4,048		396	62,633 53,724	74,816	ŏ				115	51,031			
2009	1,330	772	10,312	5,733		6	45,387	65,180	0				151	47,835			
2010	1,419	771	12,203	5,885		10 7	44,224	68,095	0				213				
2011	1,536	753 789	13,377 12,976	6,366 6.149	5,677 6,020	5	49,469 45,867	74,896 71.018	0				308 504	49,936 46,952			
2012 2013	1,323 1,383	789 829	12,919	6,041	6,020 6,256	6	50,161	75,382	ő				668	46,952 54,397		==	
2014	1.399	834	13,895	6,320	4,539	5	47,949	72,709	0				841	52,898			
2015	1,334	823	13,978	6,083	5,962	46	47,106	73,175 R 74,478	0				1,046				
2016 2017	1,389 1,464	817 803	13,140 13,559	5,864 5,617	5,952 6,026	57 19	R 49,464	R 75,502	U				1,388 1,760	50,979 48,627			
2018	1,438	807	12,205	5,380		10	R 50,281 R 50,903	R 74,623	0	==	==	==	1,899	49,588	==		==
2019	1,323	808	11,661	5,562	6,103	11	H 49.635	H 72,972	ō				2,213	47,808			
2020	1,211	R 735	10,767	5,575		9	R 46,056	R 68,525 R 69,349	0				2,527	47,631			
2021 2022	1,223 1,322	719 685	12,787 12,924	5,667 6,052	6,030 6,225	13 14	R 44,852 44,887	70,102	0				2,860 3,074	47,583 47,500			
									Trillion Bt	u							
1960	35.2	466.3	59.0	16.0	15.0	67.6	238.9	396.5	(s)	56.3	NA	NA	NA		1,023.2	R 138.9	R 1,162.1
1965 1970	63.2 59.3	567.4 749.1	75.7 49.6	18.3 33.4	11.8 10.2	74.5 76.2	255.7 286.9	435.9 456.2	(s) (s)	74.8 91.7	NA NA	NA NA	NA NA		1,240.0 1,500.3	R 194.0 R 294.7	R 1,434.0 R 1,795.0
1975	56.4	703.6	61.3	55.4 55.4	7.0	52.2	315.4	491.3	0.0		NA NA	NA NA	NA NA		1,507.8	R 320.8	R 1,828.6
1980	66.1	507.4	90.7	45.4	8.9	78.9	403.8	627.8	0.0	61.1	NA	NA	NA	177.0	1,439.4	H 376.6	H 1.816.0
1985	44.0	449.5	103.6	44.4		117.8	410.8	692.7	0.0		0.3	NA	ŅĄ		1,438.8	R 367.3 R 333.2	R 1,806.1
1990 1995	64.7 57.9	606.7 705.4	99.5 67.9	42.4 29.4		11.6 9.2	410.2 343.7	580.3 465.0	0.0 0.0		0.2 0.3	0.6 1.4	(s)	190.7 195.7	1,508.7 R 1,468.0	R 304.2	R 1,841.8 R 1,772.3
2000	47.4	803.8	108.7	20.3		0.7	364.7	504.7	0.0		0.3	1.3	R (s) R (s) R 0.1	219.4	R 1,618.1	R 373 9	R 1,992.0
2005	46.3	841.1	77.0	6.0	27.9	0.1	382.0	493.0	0.0	37.0	0.9	1.3	B 0.1	171.4	R 1 591 1	R 265.7 R 258.9	H 1 856 8
2006	45.1	809.8	80.4	10.3		0.6	377.2	497.1	0.0		2.3	1.3	R 0.2 R 0.2	174.0	R 1,560.2 R 1,558.0	R 258.9 R 272.4	R 1,819.1
2007 2008	43.1 39.4	821.4 809.4	66.3 73.5	6.5 13.6	22.9 20.1	0.1 2.5	387.2 332.2	482.9 441.9	0.0		5.1 5.3	1.4 1.4	R 0.4	172.4 174.1	R 1 500 3	R 284.1	R 1,830.4 R 1,784.4
2009	31.3	792.7	59.6	19.0		(s)	279.8	377.5	0.0	26.7	2.7	1.2	R 0.5	163.2	R 1.395.8	R 254.1	R 1.649.9
2010	33.2	787.4	70.5	22.6	29.3	(s) 0.1	270.5	392.9	0.0	29.9	3.3	1.2	R 0.7	168.2	H 1.416.9	H 250.0	H 1 666 9
2011	35.6	767.4	77.2	24.4		(s)	304.8	435.2	0.0		8.4	1.2	R 1.1 R 1.7	170.4	R 1,451.9 R 1,450.8	R 241.1 R 225.1	R 1,693.0
2012 2013	30.7 31.9	805.5 850.3	74.8 74.5	23.6 23.2	30.5 31.7	(s) (s)	282.8 308.6	411.8 437.9	0.0		8.1 8.0	1.2 1.2	R 2.3	160.2 185.6	H 1 5/18 0	H 252 2	R 1,675.9 R 1,801.1
2013	32.6	857.8	80.1	24.3	23.0	(s)	295.3	422.7	0.0	28.5	10.2	1.2	H 2.9	180.5	R 1 536 3	R 242 6	<sup>rt</sup> 1 778 9
2015	31.0	853.1	80.5	23.3 22.5	30.1	(s) 0.3	290.1 R 312.0	424.4 R 440.6	0.0	27.0	10.5	1.2	R 3.6	179.3	R 1,530.1 R 1,537.7	R 239.0 R 208.9	R 1,769.1 R 1,746.6
2016	32.1	845.8	75.6	22.5	30.1	0.4	H 312.0	H 440.6	0.0		10.6	1.2	H 4.7	173.9	H 1,537.7	H 208.9	H 1,746.6
2017 2018	33.7 33.3	831.7 834.5	78.1 70.3	21.6 20.6	30.4 31.0	0.1 0.1	R 316.5 R 320.9	R 446.7 R 442.9	0.0 0.0		11.3 11.6	1.2 1.2	R 6.0 R 6.5		R 1,529.1 R 1,531.5	R 179.7 R 207.9	R 1,708.7 R 1,739.4
2019	30.9	835.7	67.2	21.3		0.1	R 311 9	R 431 3	0.0		10.3	1.2	R 7.6	163.1	R 1 512 5	R 178.1	H 1 690 6
2020	28.0	<sup>R</sup> 759.6	62.0	21.4	30.9	0.1	R 289.1 R 282.9	R 403.5	0.0	53.9	6.0	1.2 1.2	R 8.6	162.5	R 1,423.4 R 1,414.8	R 182 3	R 1,605.7 R 1,597.5
2021	28.2	743.7	73.7	21.7		0.1	H 282.9	R 408.9	0.0		5.1	1.2	R 9.8		H 1,414.8	R 182.7	H 1,597.5
2022	30.0	708.9	74.5	23.2	31.4	0.1	283.3	412.6	0.0	32.1	4.4	1.2	10.5	162.1	1,361.9	177.4	1,539.3

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, California

						Po	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	23	11	5 383	15 313	214	25,818	2 327	132,768	38,610	220,432	66			
1965	23 8	16	5,383 3,342 2,184	15,313 21,032	208	40,150	2,327 2,772	166,346	35,109	268,960 332,632	66 66 65			
1970	4	17	2,184	29,448	305	59,614	2,457	210,641	27,982	332,632	65			
1975 1980	(s)	20 15	1,640 285	30,528 41,801	390 522	62,509 62,224	2,386 2,804	238,548 250,100	20,056 66,673	356,057 424,409 427,934	265 203			
1985	Ö	14	1,354	49,892	1,225	67,028	2,552 2,871	262,544	43.340	427,934	266			
1990	0	20	1,106	55,598	923	94,907	2,871	300,893	54,206	510 503	315			
1995 2000	0	20 12	807 723	57,940 70,525	564 341	95,304 103,001	2,739 2,926	310,379 340,681	44,043 33,540	511,776 551,739 599,335	423 606			
2005	0	20	530	81,307	842	104,612	2 468	375.652	33 924	599.335	846			
2006	0	17	461 443	83,608	868 760	106,403	2,405 2,483	377,390	37,614 39,652	608,749 615,649	877			
2007	0	20	443	85,465	760	110,794	2,483	376,053	39,652	615,649	848			
2008 2009	0	19 19	407 285	74,509 73,406	1,320 1,013	100,836 97,985	2,305 2,073	360,261 352,703	40,209 38,519	579,849 565,985	867 844			
2010	0	23	348	74,360	116	76,755	2,549	349,136	39,901	565,985 543,165	821			
2011	0	23 25 28 25 39	379	75.886	117	76,404	2.388	339 741	29 724	524 630	827			
2012	0	28	379 342	72,945	147	76,770	2,179	335,807 339,959	26,571 19,747	514,798	685			
2013 2014	0	25 39	342 470	75,872 79,756	203 212	78,696 80,424	2,276 2,330	339,959	13,442	514,798 517,096 519,346	836 832		==	
2015	ŏ	36	499	80.487	285	86,709	2,571	342.128	18,509	531,188	838			
2016	Ō	41	450	80,218	343	93,873	2,571 R 2,401 R 2,232	348,830	18,509 23,140	531,188 R 549,255 R 562,356	782			
2017	0	44	407	82,842	275	99,777	H 2,232	350,604	26,219	H 562,356	835			
2018 2019	0	44 49	442 497	84,010 83,117	288 250	101,663 103,769	R 2,146 R 2,100	349,108 343,683	26,855 29,320	R 564,512 R 562,735 R 433,260	750 768			
2020	ő	42	380	78 123	145	59,550	H 1 727	273,289	20,045	R 433,260	603			
2021	Ō	47	390	H 81,733	131	70,561	<sup>H</sup> 1,882	302,881	28,248	n 514.463	621			
2022	0	49	404	81,180	183	82,887	1,942	299,304	28,946	533,951	685			
							Tri	Ilion Btu						
1960	0.6	11.0	27.2	89.2	0.8	140.7	14.1	697.4	242.7	1,212.1	0.2	1,223.9	R 0.5	R 1,224.3
1965 1970	0.2	16.8 17.9	16.9 11.0	122.5 171.5	0.8	222.2 332.9	16.8 14.9	873.8	220.7	1,473.7 1,814.0	0.2 0.2	1,491.0 1,832.2	R 0.4	H 1 401 4
1970	0.1 (s)	21.4	8.3	171.5	1.2 1.5	332.9 350.2	14.9	1,106.5 1,253.1	175.9 126.1	1,931.4	0.2	1,832.2	0.5 P 1.8	R 1,832.6 R 1,955.6 R 2,363.6 R 2,364.3 R 2,834.0
1980	0.0	15.9	1.4	243.5	2.0	348.7	17.0	1,313.8	419.2	2 345 6	0.7	2.362.2	R 1.5	R 2.363.6
1985	0.0	15.0	6.8	290.6	4.7	375.8	15.5	1,379.1	272.5	2,345.1 2,806.4	0.9	2.362.4	R 1.8	R 2,364.3
1990 1995	0.0	20.8	5.6 4.1	323.9	3.5	534.7 540.4	17.4 16.6	1,580.6	340.8 276.9	2,806.4	1.1	2,832.2	R 1.5 R 1.8 R 1.9 R 2.2	R 2,834.0 R 2,816.2
2000	0.0 0.0	20.0 11.5	3.7	337.2 410.4	2.2 1.3	540.4 584.0	17.7	1,615.2 1,771.9	276.9	2,792.5 2,999.9	1.4 2.1	2,814.0 3,013.5	R 3.5	R 3 017 0
2005	0.0	20.7	2.7	473.0	3.2	593.1	15.0	1,950.4	213.3	2,999.9 3,250.7	2.9	3,274.4	R 3.5 R 4.5 R 4.5	R 3,017.0 R 3,278.9
2006	0.0	17.3	2.3	485.2	3.3	603.3	14.6	1,956.8	236.5	3.302.0	3.0	3,322.7	R 4.5	R 3,327.2 R 3,354.4 R 3,144.1 R 3,062.0
2007 2008	0.0 0.0	20.6 20.0	2.2 2.1	494.3 430.7	2.9 5.1	628.2 571.7	15.1 14.0	1,933.7 1,839.5	249.3 252.8	3,325.7 3,115.8	2.9 3.0	3,349.8 3,139.3	R 4.6 R 4.8	n 3,354.4 R 2 144.1
2008	0.0	19.7	1.4	424.1	3.9	571.7 555.6	12.6	1,795.3	252.6 242.2	3,115.6	3.0 2.9	3,057.6	R 4.5	R 3.062 0
2010	0.0	23.8	1.8	429.4	0.4	435.2	15.5	1,769.1	250.9	2.902.2	2.8	2.928.8	R 4.5 R 4.2	n 2.933.0
2011	0.0	25.4	1.9	437.9	0.4	433.2	14.5	1,720.1	186.9	2,794.9	2.8	2,823.1	B 4 A	R 2 827 1
2012 2013	0.0 0.0	28.1 25.2	1.9 1.7	420.7 437.2	0.6 0.8	435.3 446.2	13.2 13.8	1,699.9 1,720.2	167.1 124.1	2,738.6 2,744.1	2.3 2.9	2,769.0 2,772.2	n 3.3	n 2,772.3 R 2 776 1
2013	0.0	25.2 39.6	2.4	457.2 459.6	0.8	446.2 456.0	14.1	1,733.8	84.5	2,744.1	2.9	2,772.2	R 3.3 R 3.9 R 3.8 R 3.8 R 3.2 R 3.1	R 2,772.3 R 2,776.1 R 2,797.5 R 2,864.6
2015	0.0	36.8	2.4 2.5	463.8	1.1	491.6	15.6	1,730.1	84.5 116.4	2,751.2 2,821.1	2.9	2,793.7 2,860.8	R 3.8	R 2,864.6
2016	0.0	42.7 45.9	2.3	461.8	1.3	532.3	R 14.6 R 13.5	1,763.3	145.5	H 2 021 0	2.7	H 2.966.4	H 3.2	R 2,969.6 R 3,047.6 R 3,060.9
2017 2018	0.0 0.0	45.9 45.4	2.1 2.2	476.9 483.8	1.1 1.1	565.7 576.4	R 13.5 R 13.0	1,771.6 1,764.4	164.8 168.8	R 2,995.7 R 3,009.8	2.8 2.6	R 3,044.5 R 3,057.8	''3.1 R 3 1	11 3,047.6 R 3,060.0
2019	0.0	50.3	2.5	478.7	1.0	588 4	R 12.7	1,736.3	184.3	3.003.9	2.6	R 3.056.7	R 2.9	R 3.059.6
2020	0.0	43.8	1.9	449.7	0.6	337.6	R 12.7 R 10.5	1,380.7	126.0	2.307.0	2.1	R 3,056.7 R 2,352.8	R 2.9 R 2.3	R 3,059.6 R 2,355.1 R 2,802.0
		48.5	2.0	R 471.1	0.5	400.1	R 11.4	1,529.5	177.6	R 2,749.0	2.1	R 2,799.6	R 2.4	H 2 802 0
2021 2022	0.0 0.0	50.9	2.0 2.0	468.0	0.7	470.0	11.8	1,511.2	182.0	2,860.0	2.3	2,913.3	2.6	2,915.8

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— —</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, California

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousand	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	0	323	120	0	23,931	24,051	(s) 270	17,445		33	NA	NA	-400	
1965 1970	0	323 493 636	120 83 107	0	23,931 16,590 21,589	16,673 21,696	270 3,132	30,523 38,082		189 525	NA NA	NA NA	-3 -11	
1975 1980	Ŏ	275 519	247	Õ	78,345 62,663	78,592 65,222	6.071	40,103 40,780		3.246	NA	NA	0	
1980 1985	0	519 666	2,559 308	0	62,663 4,617	65,222 4,925	4,920 19,729	40,780 31,717		5,073 9,197	NA 11	NA 3	89 4,055	
1990 1995	910	629 603	264 107	819 2,612	7,169	8,252	32,693 30,246	23,785 48,029		14,521 11,450	367	2,759	4,618 1,739	
1995	1,057	603	107	2,612	734	3,454	30,246	48,029		11,450	497	3,087	1,739	
2000 2005	939 873	893 689	899 241	3,319 3,863	86 4	4,304 4,108	35,176 36,155	38,326 39,626		12,308 13,023	493 537	3,518 4,262	3,381 5,527	
2006	899	771	201	3,863 3,558 3,557	15	3,775	31,959	48,040		12,821	495 557	4,883	2,372	
2007 2008	961 993	834 858	169 175	3,557 3,055	17	3,742 3,239	35,792 32,482	27,314 24,128		12,991 12,883	557 670	5,585 5,385	5,505 4,695	
2009	879	809	116	2.942	9	3.067	31.764	27.888		12,853	647	5.840	2.529	
2010	892 812	736	76	2,158	8	2,242	32,201	33,424 42,553		12,600	765	6,079	3,072	
2011 2012	812 539	617 855	63 61	1,848 362	1	1,912 423	36,663 18,507	42,553 26,835		12,552 12,519	861 1,328	7,752 9,754	5,885 8,602	
2013	539 259 278	826 832	62	48	Ŏ	109	17,912	23,749		12,307	3,727 9,834	12,819	10,950 12,309	
2014 2015	278 0	832 806	66 67	43 0	0	108 67	16,986 18,505	16,527 13,805		12,102 11,883	9,834 14,711	12,988	12,309 13,633	
2016	0	666	62 66 67 65 68	0	Ö	65 68	18,908	28,930		11,457	18,677	12,220 13,498	15,386	
2017	0	601	68	0	0	68	17,901	42,344		11,560	24,214	12.812	14,243	
2018 2019	0	616 568	68	0	0	66 68	18,214 16,165	26,320 38,341		11,677 10,914	26,818 28,140	14,013 13,724	724 4,716	
2020	Õ	616	62	Ō	Ō	62	16,259	21,371		11,367	30.060	13,572	3,237	
2021 2022	0	646 645	66 68 62 68 58	0	0	68 58	16,477 17,593	14,669 17,636		11,128 11,181	34,591 38,393	15,165 14,627	3,664 3,204	
							Trillion Btu							
1960 1965	0.0 0.0	334.3	0.7 0.5	0.0 0.0	150.5 104.3	151.2	(s) 3.2	R 59.5	(s) 0.7	R 0.1 R 0.6	NA	NA	-1.4	R 543.7
1965	0.0	528.7 670.6	0.5	0.0	135.7	104.8 136.4	3.2 34.4	R 104.1 R 129.9	0.7	R 1.8	NA NA	NA NA	(S)	R 742.1 R 973.6
1975	0.0	291.9	1.4	0.0	492.6	494.0	66.9	R 136.8 R 139.1 R 108.2	0.2	R 11.1	NA	NA	(s) (s) 0.0 0.3	R 1,000.8
1980 1985	0.0 0.0	545.8 700.3	14.8 1.8	0.0 0.0	394.0 29.0	408.7 30.8	53.7 209.6	n 139.1 R 108.2	0.2	R 17.3 R 31.4	NA R (e)	NA (s)	0.3 13.8	n 1,165.1 R 1 094.2
1990 1995	18.8	648.9 620.0	1.5 0.6	4.9 15.7	45.1	51.5	346.0	R 81.2 R 163.9	(s) 71.5	R 49.5 P 39.1	R (s) R 1.3 R 1.7	(s) R 9.4 R 10.5	15.8 5.9	R 1,293.9
1995	23.3	620.0 911.2	0.6 5.2	15.7 20.0	4.6 0.5	21.0	317.8 366.8	H 163.9	62.6	H 39.1 R 42.0	H 1.7	H 10.5	5.9 11.5	H 1,265.8
2000 2005	22.1 20.7	709.3	1.4	22.1 20.3	(s)	25.8 23.5	377.3	R 135.2	69.4 73.1	R 44 4	R 1.7 R 1.8	R 12.0 R 14.5 R 16.7	18.9	R 1.418.8
2006	21.9	795.8	1.2	20.3	(s) 0.1	21.6	333.5	R 130.8 R 135.2 R 163.9 R 93.2 R 82.3	74.9	H 43.7	H 1 7	R 16.7	8.1	R 973.6 R 1,000.1 R 1,165.1 R 1,094.2 R 1,293.9 R 1,265.8 R 1,593.3 R 1,418.8 R 1,481.8 R 1,529.3 R 1,501.7 R 1,448.9 R 1,396.4 R 1,350.9
2007 2008	23.4 23.6	860.4 882.4	1.0 1.0	20.3 17.5	0.1 0.1	21.4 18.5	375.4 339.5	R 82 3	71.5 74.6	R 44.3 R 44.0	R 1.9 R 2.3 R 2.2 R 2.6 R 2.9 R 4.5 R 12.7	R 19.1 R 18.4	18.8 16.0	R 1,529.3
2009	21.1 21.8	830.8	0.7	16.8	0.1	17.6	332.2	R 95.2 R 114.0	77.5	H 43.9	R 2.2	H 19 9	8.6	R 1,448.9
2010 2011	21.8 19.7	755.3 630.1	0.4 0.4	12.3 10.6	0.1 (s)	12.8 10.9	336.6 383.6	H 114.0	79.0 69.0	R 43.0 R 42.8	H 2.6	R 20.7 R 26.4	10.5 20.1	H 1,396.4
2012	13.7 13.2 6.2	876.9	0.4	2.1	0.0	2.4 0.6	193.9	R 145.2 R 91.6 R 81.0	75.2	R 42.7 R 42.0	R 4.5	R 33.3	29.4	R 1.363.0
2013	6.2	876.9 849.4	0.4	2.1 0.3	0.0	0.6	187.2	R 81.0	75.2 74.3	R 42.0	R 12.7	R 33.3 R 43.7	29.4 37.4	R 1,334.5
2014 2015	6.9 0.0	859.0 833.7	0.4 0.4	0.2 0.0	0.0 (s)	0.6 0.4	177.7 193.5	R 56.4 R 47.1	78.2 75.7	R 41.3 R 40.5	R 33.6 R 50.2 R 63.7 R 82.6	R 44.3 R 41.7	42.0 46.5	H 1,350.9 H 1,363.0 H 1,334.5 H 1,339.9 H 1,329.4 H 1,252.9 H 1,232.6 H 1,163.3 H 1,150.6
2016	0.0 0.0	688.8	0.4	0.0 0.0	(s) 0.0	0.4	197.8	R 98.7	75.7 65.9	R 39.1	R 63.7	R 46.1 R 43.7 R 47.8	46.5 52.5	R 1,252.9
2017 2018	0.0 0.0	621.2 635.4	0.4 0.4	0.0 0.0	0.0 0.0	0.4 0.4	187.2 190.4	H 144.5 R 90 9	64.9 65.7	R 39.4 R 30.8	H 82.6 R 01 F	H 43.7 R 47.9	48.6 2.5	H 1,232.6 R 1 163 2
2019	0.0	587.6	0.4	0.0	0.0	0.4	168.8	R_130.8	66.8	R 39.8 R 37.2	R 91.5 R 96.0	D 46 8	16.1	R 1,150.6
2020	0.0	635.5	0.4	0.0	0.0	0.4	169.8	R 72.9	61.2	н 38 8	H 102 6	R 46.3	11.0	R 1,138.5
2021 2022	0.0 0.0	667.5 668.1	0.4 0.3	0.0 0.0	0.0 0.0	0.4 0.3	R 171.8 183.5	R 98.7 R 144.5 R 89.8 R 130.8 R 72.9 R 50.1 60.2	58.7 57.3	R 38.0 38.1	R 118.0 131.0	R 46.3 R 51.7 49.9	12.5 10.9	R 1,138.5 R 1,168.7 1,199.4
	0.0	000.1	0.0	0.0	0.0	0.0	100.0	00.2	37.0	55.1	101.0	40.0	10.0	1,100.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Colorado

						Petroleum								
		Natural	Distillate		Jet	Motor	Residual	6		Nuclear	Hydro- electric		Fuel	
-	Coal	gas <sup>a</sup>	fuel oil <sup>b</sup>	HGL <sup>c</sup>	fuel <sup>d</sup>	gasoline <sup>e</sup>	fuel oil	Other <sup>f</sup>	Total	electric power	power <sup>g</sup>	Wind	ethanol h	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	rs	Thousan	d barrels
1960	2,940	188	4,194	3,153	480	16,461	1,883	4,072	30,242	0	970	0	NA	NA
1965 1970	4,204 5,101	224 282	3,925 5,212	3,339 4,710	3,426 7,476	19,321 26,103	2,056 1,507	4,951 5,813	37,017 50,820	0	938 1,236	0	NA NA	NA NA
1971	4.600	289	6.249	5.064	7.687	27.660	1.593	5.308	53,561 58,118	Ö	1,585 1,243	Ö	NA	NA
1972 1973	5,295 6,296	310 324	6,883 7,909	5,949 5,831	7,758 7,717	30,020 31,522	1,966 2,286	5,542 5,721	58,118 60,987	0	1,243 1,281	0	NA NA	NA NA
1973 1974 1975	6,296	313	8,813	5,031	7,717 7,347 7,151	30,779	3,050 3,388	4,786	59.905	0	1,415	0	NA NA	NA
1975	6,494 7,603	308	8,846	5,129 5,053	7,151	31,916	3,388	4,272	59,905 60,626	0	1.507	0	NA	NA
1976 1977	9,003 10,689	302 282	9,439 9,935	5,445 5,256	7,732 7,900	32,947 34,312	3,833 3,246	4,548 5,168	63,943 65,818	0 225	1,288 1,072	0	NA NA	NA NA
1978	10,576	268 292	10.238	5.979	8.297	36,885 35,268	3,928 929	4.453	69,780 63,126	609 213	1,343 1,612	Ö	NA	NA
1979	11,347	292	12,053	3,905	6,047	35,268	929	4,923	63,126	213	1,612	0	NA	NA
1980 1981	11,981 13,501	256 212	11,228 8,725	3,870 3,715	4,725 5 494	34,282 34,625	1,814 136	4,823 3,711	60,742 56,406	667 749	1,717 1,399	0	NA 0	NA NA
1982	13,875	225	8,725 9,228	4,618	5,494 5,556	35.099	136 15	3,506	56,406 58,022	569	1,399 1,650	ő	57	NA
1983 1984	13,004	214 230	10,934 10,001	4,782 2,298	6,134 8,505	33,608 33,612	330 177	4,023 5,223	59,812 59,817	748 55	1,871 2,169	0	131 184	NA NA
1985	14,740 15,241	219	9,149	2,290	7.861	35,742	194	5,223 4,937	60.207	-32	2,169	0	446	NA NA
1985 1986	15,029	198	9,636	2,324 2,161	8,065	36,504	194 246	4,810	60,207 61,423	-32 52	2,357 2,264	0	153	NA
1987	15,007 15,860	210 228	9,406 10,699	2,336 2,705	8,372 6,460	36,195 36,389	34	5,104 5,671	61 447	174	1,818 1,745 1,752	0	52 123	NA NA
1988 1989	16,393	247	9,767	3.744	5.337	35,420	21	5,295	61,954 59,585	660 529	1,745	0	204	NA NA
1990 1991	17,102	247	10,116	3,045 3,520	6,109 6,503	35,562	34 32 21 13 80	5,481	60,326 61,378	0	1,420 1,794	Ō	230	NA
1991	16,606	268	10,467	3,520	6,503 7,363	35,676 35,790	80 41	5,132 5,535	61,378	0	1,794	0	241 377	NA NA
1992 1993	17,081 17,452	260 292	11,011 11,878	3,184 3,448	7,363 8,959	35,790 37,913	11	5,535 5,641	62,924 67,851	0	1,499 1,912	0	613	NA NA
1994	17.882	279	11.882	3 390	7.930	39.385	3	6.559	69.149	0	1.544	0	589	NA
1995 1996	17,330 17,586	290 315	12,183 12,483	3,936 3,897	7,428 7,765	41,357 43,028	8 20	5,981 6,468	70,893 73,660	0	2,131 1,820	0	897 1,547	NA NA
1997 1998	18,297	315	11,863 14,517	1,954 1,413	7,177	43.744	3	5,169	69,910 74,811	ő	2,032	0	1,521 1,504	NA
1998	18.429	330	14,517	1,413	6,798	44.841	3	7,238	74,811	0	1.462	0	1,504	NA
1999 2000	18,573 19,652	333 368	15,025 15,566	2,973 6,484	7,800 7,582	47,069 47,424	3 7	4,738 6,243	77,609 83,306	0	1,562 1,454	0	1,276 1,443	NA NA
2001	20,367 19,877	464	17.436	6.509	7.718	49.636	5	5.280	86,584	ŏ	1.495	49	1.969	1
2002 2003	19,877 20,153	459 436	17,412 18,199	5,597 6,965	7,131 5,652	49,151 48,708	0	3,691 7,428	86,584 82,981 86,952	0	1,209	139 147	1,751	1
2003	19.766	436 440	16,614	7,169	12.354	50 824	1	7,428 6,370	93.331	0	1,262 1,195 1,415	220	2,031 1,944	1
2004 2005	19.445	470	17.562	5 707	12,354 12,320	51.312	Ô	5.349	93,331 92,250	Ö	1,415	220 776	1,096	5
2006 2007	20,059 19,779	451 505	18,962 19,736	6,751 5,996	12,987 13,530	51,702 52,238	29 0	5,355 5,948	95,786 97,448	0	1,791 1,730	866 1,292	981 1,672	13 18
2008	19,779	505	19.891	4.840	13.163	50.330	3	4.581	92.807	0	2.039	3.221	2.127	15
2009	19,483 17,776	524	18,739	4,060	10,842	50,415	(s)	5,230	89,286	Ö	2,039 1,886	3,164	2,433	15 16
2010 2011	19,584 19,032	501	19,306 19,314	4,099	11,428 11,141	51,128	0	6,767 5,140	92,728	0	1,578 2,083 1,497	3,452 5,200	3,001 3,812	13
2012	19,490	467 444	19,119	4,268 3,917	11,170	50,397 50,378	0	4,895	90,260 89,479	0	1.497	5.969	4 095	84
2013	19.166	468	18.917	4,656	11,009	51,539	Ō	5,148	91,267	0	1,213	7 204	4,392	56
2014 2015	18,257 17,887	468 479 467	20,642 19,388	4,656 4,562 4,179	11,145 10,871	51,539 52,473 54,838	0	5,360 _ 5,554	91,267 94,182 94,830 R 95,769 R 97,006 R 101,014 R 103,859 R 86,746	0	1,213 1,770 1,620	7,369 7,475	4,392 4,367 5,454	13 44 84 56 118 54 189 133
2016	16.947	441	18.011	4 265	11 867	56,127 55,675	0	R 5 498	R 95,769	0	1,903 1,897	9,421	5,807 5,779	189
2017	16,924	438	19,872	4,108	12,691	55,675	0	H 4 660	R 97,006	0	1,897	9,315	5,779	133
2018 2019	15,445 14,703	486 514 R 517	21,787 22,188	4,447 5,124	13,244 13,760	56,199 57,201	0	R 5,337 R 5,586	H 101,014 R 103,859	0	1,825 1,811	9,745 10,852	5,801 6,011	161 286
2020	11,637	R 517	20.046	4.595	7.607	48.814	0	H 5.683	R 86,746	0	1 669	13 386	5 178	286 _ 251
2021 2022	13,544	R 483 503	R 21,898	4,656	11,510	54,002	0	R 5,540	1197,607	0	1,598 1,345	15,126	5,443 5,639	H 161
2022	12,428	503	27,165	5,151	13,012	60,012	0	5,933	111,272	0	1,345	16,911	5,639	119

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Colorado (trillion Btu)

	(tillioi												
					Fossil						-	Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>©</sup>	Motor gasoline excluding fuel ethanol a	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960 1965 1970 1971 1971 1973 1974 1975 1976 1977 1980 1981 1982 1983 1984 1985 1986 1987 1989 1990 1991 1992 1993 1994 1995 1994 1997 1998 1997 1998	68.2 98.1 115.7 105.7 119.0 140.5 138.3 185.1 223.8 218.6 238.0 247.6 278.7 276.4 254.7 286.9 299.1 295.4 296.5 311.4 323.5 337.4 330.6 339.7 347.2 359.4 359.4 364.2 364.9 364.2	195.0 204.5 275.0 281.8 301.7 311.7 302.7 281.0 276.3 254.0 234.6 260.8 244.8 201.4 201.4 207.1 221.0 209.8 190.3 201.5 218.6 240.6 232.3 268.8 259.0 286.4 272.2 288.4 315.9 311.9 328.9 330.9 366.1	biofuels \$\frac{3}{4}\$  24.4  22.9  30.4  36.4  40.1  51.3  51.5  55.0  57.9  59.6  70.2  65.4  50.8  53.8  63.7  58.3  56.1  54.8  62.3  56.9  58.9  61.0  64.1  69.2  70.9  72.6  69.0  84.5  87.4  90.6	12.1 12.8 17.9 19.2 22.6 22.1 19.3 18.9 20.4 19.5 22.3 14.2 14.3 13.8 17.0 17.8 8.5 8.7 8.1 8.8 10.0 13.8 11.3 13.8 11.3 13.0 11.8 12.7 12.6 14.4 6.9 5.0 11.2 23.6	fuel c  2.6 19.3 42.3 43.4 43.9 43.6 41.5 40.4 43.7 44.7 46.9 34.2 26.7 31.0 31.4 34.7 48.1 44.5 45.6 47.4 36.5 30.2 34.6 36.8 41.6 50.7 44.9 42.0 44.0 40.7 38.5 44.2 43.0	86.5 101.5 137.1 145.3 157.7 165.6 161.7 167.7 173.1 180.2 193.8 185.3 180.1 181.9 184.4 176.5 176.6 187.8 191.2 186.1 186.8 190.1 191.2 186.1 186.8 197.2 186.1 186.9 187.4 188.9 191.2 186.1 186.8 187.4 188.9 192.2 186.1 186.8 187.4 188.8 187.5 188.8 187.5 188.8 187.5 188.8 189.8 1	11.8 12.9 9.5 10.0 12.4 14.4 19.2 21.3 24.1 20.4 24.7 5.8 11.4 0.9 0.1 2.1 1.1 1.2 1.5 0.2 0.1 0.1 0.1 0.5 0.3 0.1 (s) 0.1 (s) (s)	24.3 29.1 36.3 33.2 34.6 35.9 29.9 26.6 28.5 32.3 27.7 30.9 29.9 23.3 21.9 25.1 33.1 31.5 30.8 32.5 36.2 33.4 34.8 32.7 35.9 41.9 38.2 41.1 32.4 46.3 29.5 39.7	161.7 198.5 273.4 287.6 311.2 327.6 323.0 326.5 344.8 355.0 375.0 340.6 327.8 301.7 308.5 319.9 325.7 326.9 334.0 333.8 336.4 320.5 326.5 321.9 321.9 321.9 321.9 322.7 322.9 323.9 323.9 324.9 325.7 326.9 327.8	424.9 501.1 664.1 675.1 731.9 779.8 764.0 766.8 806.2 832.8 829.5 820.2 781.9 801.1 781.7 833.6 835.8 819.7 831.9 866.1 930.8 997.9 1,003.4 1,010.4 1,057.7 1,045.7 1,104.0 1,104.0	gaseous fuels a  195.0 204.5 275.0 281.8 301.7 311.7 302.7 281.0 276.3 254.0 234.6 260.8 254.6 210.5 225.0 215.1 230.1 218.7 198.4 210.1 229.0 249.8 247.8 275.8 266.4 294.9 280.4 295.7 322.8 318.3 334.3 335.5	24.4 22.9 30.4 36.4 46.1 51.5 55.0 57.9 59.6 70.2 65.8 53.8 63.7 58.3 56.1 54.8 62.3 58.9 61.0 69.2 70.9 72.6 69.2 70.9 72.6 69.2 70.9 72.6 69.2 70.9 72.6 69.2	## support
2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2019 2010 2011 2011 2012 2013 2014 2015 2016 2017 2018 2019 2019 2010 2011 2011 2012 2012 2013 2014 2015 2016 2017 2018 2019 2019 2019 2010 2011 2011 2011 2012 2013 2014 2015 2016 2017 2018 2019 2019 2019 2019 2019 2019 2019 2019	390.2 390.2 386.7 394.3 388.6 385.4 350.2 382.6 368.9 370.1 363.5 350.5 340.1 321.5 273.3 217.1 252.4 233.3	464.1 457.7 436.9 440.7 478.5 458.9 512.8 508.5 526.0 505.6 477.2 456.5 480.9 497.2 490.6 464.7 462.1 518.1 553.8 R 552.1 R 510.0 524.7	101.5 101.3 105.9 96.7 102.2 110.0 114.2 115.0 107.4 110.8 109.9 108.6 106.1 116.1 108.8 99.8 110.7 121.9 124.4 111.8 8 124.5	23.6 20.5 25.8 26.3 21.3 24.4 21.9 18.3 15.4 15.7 16.4 15.0 17.9 17.5 16.1 16.4 15.8 17.1 19.7	43.8 40.4 32.0 70.0 69.9 73.6 76.7 74.6 61.5 64.8 63.2 63.3 62.4 63.2 61.6 67.3 72.0 75.1 78.0 43.1 65.3 73.8	241.3 249.5 246.1 257.3 262.6 264.7 262.8 249.6 248.2 248.7 241.8 245.5 250.3 258.4 263.6 261.2 263.8 268.0 228.6 253.8 283.4	(s) (s) 0.0 0.0 0.0 (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	33.1 22.8 47.6 40.7 33.7 33.8 37.8 28.9 33.2 43.1 32.3 30.7 32.3 35.0 35.0 8 29.5 8 34.0 8 35.6 8 36.6 8 36.3 8 37.9	453.2 433.2 434.5 457.4 491.0 489.6 506.7 513.4 486.4 465.7 483.1 463.7 458.5 464.3 482.0 R 482.0 R 489.2 R 511.9 R 525.8 R 437.5 R 496.3 568.9	1,317.3 1,282.7 1,288.5 1,321.9 1,354.8 1,360.0 1,414.9 1,380.3 1,341.9 1,371.4 1,308.7 1,285.1 1,308.7 1,268.3 81,267.2 81,310.6 R1,268.3 R1,267.2 R1,310.6 R1,206.6 R1,258.7 1,326.9	469.8 463.5 442.4 446.1 484.0 465.3 519.9 514.9 533.7 510.9 481.6 461.1 485.1 501.5 494.9 468.8 466.6 523.6 559.7 R 557.2 R 514.2 530.4	101.5 101.3 105.9 96.7 102.2 110.0 114.2 115.0 108.3 111.5 111.4 110.3 109.0 111.7 103.7 111.4 125.5 127.8 115.4	258.2 258.2 255.5 253.1 264.1 266.4 268.6 257.0 256.6 259.1 255.2 255.0 260.8 265.5 277.3 283.7 281.3 284.0 289.0 246.6 272.7 303.0

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Colorado (continued) (trillion Btu)

							Renewable en	ergy							
					Bio	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 3.3	6.5	NA	NA	NA	NA	6.5	0.0	NA	NA	R 9.8	R -17.6	0.0	R 417.0
1965 1970	0.0 0.0	R 3.2 R 4.2	6.6 8.4	NA NA	NA NA	NA NA	NA NA	6.6 8.4	0.0 0.0	NA NA	NA NA	R 9.8	R -12.1 R -12.7	0.0 0.0	R 498.7 R 664.0
1971	0.0	R 4.2 R 5.4	8.9	NA	NA	NA	NA	8.9	0.0	NA	NA	R 12.6 R 14.3 R 14.3 R 14.7 R 14.3	H-126	0.0	R 676.8
1972	0.0 0.0	R 4.2 R 4.4	10.0 10.3	NA NA	NA NA	NA NA	NA NA	10.0	0.0 0.0	NA NA	NA NA	H 14.3	n -53	0.0 0.0	R 740.9
1973 1974	0.0	R 4.8	9.4	NA	NA	NA	NA	10.3 9.4	0.0	NA	NA	B 14.3	R -8.3 R -9.9	0.0	R 786.2 R 768.4
1975	0.0	R 5.1 R 4.4	9.0	NA	NA	NA	NA	9.0	0.0	NA	NA	n 14 2	H-159	0.0	H 765.2
1976 1977	0.0 2.4	R 3 7	10.3 12.5	NA NA	NA NA	NA NA	NA NA	10.3 12.5	0.0 0.0	NA NA	NA NA	R 14.7 R 16.1	R -20.2 R -30.7	0.0 0.0	R 800.7 R 820.7
1978	6.7	R 4.6	15.5	NA	NA	NA	NA	15.5	0.0	NA	NA	R 20.1 R 22.0	R -23.2 R -27.0	0.0	H 831.7
1979	2.3	R 5.5 R 5.9	16.5 10.7	NA NA	NA NA	NA NA	NA NA	16.5 10.7	0.0	NA NA	NA NA	R 16 6	n -27.0 R -25.5	0.0 0.0	R 836.8
1980 1981	7.3 8.3	R 4.8	10.7 14.1	0.0	NA	NA	(s)	10.7 14.1	0.0 0.0	NA NA	NA	R 16.6 R 18.9	R -25.5 R -13.6	0.0	R 818.5 R 795.5
1982 1983	6.3 8.2	R 5.6 R 6.4	14.6 15.6	0.2 0.5	NA NA	NA NA	(s) 0.1	14.8 16.2	0.0 0.0	NA NA	NA 0.0	R 20.4 R 22.6	R -19.9 R -8.1	0.0 0.0	R 807.9 R 804.3
1984	0.6	R 7.4	16.5	0.6	NA	NA	0.1 0.1 0.1	17.2	0.0	0.0	0.0	H 24.6	H -17.1	0.0	H 841.6
1985	-0.3	R 8.0	16.9	1.5	NA	NA	0.1	18.6	0.0	0.0	0.0	H 26 6	H-158	0.0	R 846.2
1986 1987	0.6 1.8	R 7.7 R 6.2	20.0 13.2	0.5 0.2	NA NA	NA NA	0.1 0.1	20.6 13.5	0.0 0.0	0.0 0.0	0.0 0.0	R 28.4 R 19.7	R -13.6 _R -8.1	0.0 0.0	R 835.1 R 845.3
1988	7.0	R 6.0	14.1	0.4	NA	NA	0.1	14.6	0.0	0.0	0.0	H 20.6	R -12.9 R -16.5	0.0	H 881 0
1989 1990	5.6 0.0	R 6.0 R 4.8	11.3 10.9	0.7 0.8	NA NA	NA NA	0.1 0.1	12.1 11.8	0.4 0.4	0.1 0.2	0.0 0.0	R 18.6 R 17.2	H -16.5 R 20.2	0.0 0.0	R 892.2
1991	0.0	Re1	12.4	0.8	NA	NA	0.1	13.3	0.4	0.2	0.0	R 17.2 R 20.0	n 30 1	0.0	R 933.5 R 980.9
1992 1993	0.0 0.0	H 5.1 B 6.5	11.5 11.1	1.3	NA NA	NA NA	0.1 0.1	12.9	0.4 0.4	0.2 0.2	0.0 0.0	R 18.6	R 26.2	0.0 0.0	R 984.4 R 1,048.8
1994	0.0	R 5.1 R 6.5 R 5.3 R 7.3	10.6	2.1 2.0	NA	NA	0.1	13.3 12.7	0.4	0.2	0.0	R 20.4 R 18.6	R 30.5 R 31.7	0.0	H 1.053.7
1995	0.0	R 7.3	10.7 10.9	3.1	NA	NA NA	0.1	13.9 16.3	0.4	0.2	0.0 0.0	H 21 8	H 43 3	0.0	H 1.075.5
1996 1997	0.0 0.0	R 6.2 R 6.9	10.9	5.4 5.3	NA NA	NA	(s) (s) 0.1	17.1	0.4 0.4	0.2 0.2	0.0	R 23.2 R 24.7	R 44.8 R 49.2	0.0 0.1	R 1,125.7 R 1,119.8
1998	0.0	Rso	10.6	5.2	NA	NA	0.1	15.8	0.4	0.2	0.0	H 21 5	H 55 1	(s)	H 1 179 7
1999 2000	0.0 0.0	R 5.3 R 5.0 R 5.1	11.1 11.3	4.4 5.0	NA NA	NA NA	0.1 0.1	15.6 16.4	0.6 0.6	0.2 0.2	0.0 0.0	R 21.7	R 62.2 R 42.9	(s) (s)	R 1,191.9 R 1,257.7
2001	0.0	R 5.1	6.8	6.8	(s) (s)	NA	0.1	13.7 12.5	0.6	0.2	H 0 2	R 21.7 R 22.1 R 19.8 R 17.9	R 21.4 R 57.9	0.1	R 1,358.7 R 1,358.5
2002 2003	0.0 0.0	R 4.1 R 4.3	6.4	6.1	(s) (s)	NA NA	0.1	12.5	0.6 0.5	0.2	R 0.5	H 17.9	H 57.9	(s)	H 1,358.5
2004	0.0	R 4.1	6.6 7.3	7.0 6.7	(s) (s)	NA	0.1 0.1	13.8 14.2	0.6	0.2 0.2	R 0.5 R 0.8	R 19.3 R 19.7	R 52.7 R 46.6	(s) 0.1	R 1,360.4 R 1,388.3
2005 2006	0.0 0.0	R 4.8 R 6.1	8.7	3.8	(s) 0.1	NA NA	0.3	12.8 15.0	0.6 0.6	0.2	H 2.6	H 21 1	R 43.7 R 47.4	(s)	R 1,419.6 R 1,432.3
2006	0.0	R 5.9	7.9 8.7	3.4 5.8	0.1	NA NA	3.6 5.2	19.8	0.6	0.2 R 0.2	R 2.6 R 3.0 R 4.4	R 24.9 R 31.0	H 17 6	(s) (s)	R 1,463.5 R 1,451.8
2008	0.0	R 7.0	9.7	7.4	0.1	NA	6.8	24.0	0.7	R∩⊿	R 11.0 R 10.8 R 11.8	R 43.1 R 45.7 R 49.5	R 28.4 R 42.4 R 59.8	(s)	R 1,451.8
2009 2010	0.0 0.0	R 6.4 R 5.4	11.8 12.6	8.4 10.4	0.1 0.1	NA NA	6.9 7.7	27.2 30.8	0.7 0.7	R 0.5 R 0.8	P 10.8 R 11.8	R 45.7	R 59 8	(s) (s)	R 1,430.0 R 1,480.6
2011	0.0	R 7.1	12.2	13.2	0.2	0.0	7.8	30.8 33.5	0.7	R 1 1	R 17.7	H 60.2	R 55.4 R 47.6 R 40.9	(s)	H 1.425.4
2012 2013	0.0 0.0	R 5.1 R 4.1	10.4 13.4	14.2 15.2	0.4 0.3	0.0 0.0	7.7 7.7	32.8 36.7	0.8 0.8	R 1.5 R 2.0	H 20.4 R 24.6	R 60.5 R 68.2	H 47.6 R 40.9	(s)	R 1,393.2 R 1,417.7
2014	0.0	R 6.0	14.2	15.2	0.6	0.0	7.5	37.5	0.8	H 2.3	R 25.1	H 71 8	H 29 7	(s)	R 1.429.9
2015	0.0	R 5.5	14.9	18.9	0.3	0.0	7.8	41.9	0.8	Н 2 5	R 25.5	R 76.2	R 50.3	(s)	H 1 437 2
2016 2017	0.0 0.0	R 5.5 R 6.5 R 6.5	15.3 15.5	20.2 20.1	1.0 0.7	0.0 0.0	7.6 7.7	44.1 44.1	0.8 0.8	R 3.7 R 5.4	R 17.7 R 20.4 R 24.6 R 25.1 R 25.5 R 32.1 R 31.8 R 33.3 R 37.0 R 45.7 R 51.6	R 76.2 R 87.2 R 88.4	R 50.3 R 36.9 R 40.3	(s) 0.0	R 1,392.3 R 1,395.9
2018	0.0	H62	15.8	20.2	0.9	0.0	7.7	44.6	0.8	H59	R 33.3	H 90.8	H 39 5	(s) 0.0	H 1 444 R
2019 2020	0.0 0.0	R 6.2 R 5.7	18.1 R 13.1	20.9 18.0	1.5 1.3	0.0 0.0	7.3 7.1	47.8 R 39.5	0.8 0.8	R 6.6 R 7.8	R 37.0 R 45.7	R 98.4 R 99.5	R 31.1 R 42.5	0.0 0.0	R 1,482.5 R 1,348.7
2021	0.0	R 5.5	H 13.0	18.9	R <sub>0.9</sub>	0.0	7.4	H 40.2	0.8	R 7.8 R 9.8	R 51.6	R 107.8	H 22.3	0.0	H 1,388.9
2022	0.0	4.6	16.7	19.6	0.6	0.0	8.0	44.9	0.8	13.2	57.7	121.1	16.0	0.0	1,464.0

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Colorado

						Petroleum					Bion	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet				Thousand barrels	5			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
960	1,719	151	4,185	3,153	480	16,461	1,776	4,072	30,126	1					4,837			_
970	1,719	231	5,190	4,710	7,476	26,103	1,776	5,813	50,556	i					10,787			_
980	1,857	224	10,954	3,870	4,725	34,282	1,643	4,823	60,298	1					20,870			-
990	787	234	10,066	3,045	6,109	35,562	13	5,481	60,276	0					30,795			_
2000	507	305	15,376	6,484	7,582	47,424	0	6,243	83,109	0					43,020			-
2005	432	378	17,519	5,707	12,320	51,312	0	5,349	92,207	0					48,353			-
2006	352	358	18,919	6,751	12,987	51,702	1	5,355	95,715	0					49,734			-
2007	246	381	19,671	5,996	13,530	52,238	0	5,948	97,383	0					51,299			-
8009	522	398	19,854	4,840	13,163	50,330	3	4,581	92,770	0					52,142			-
2009	425	408	18,715	4,060	10,842	50,415	0	5,230	89,261	0					51,036			-
2010 2011	605 288	409 382	19,269 19,271	4,099	11,428 11,141	51,128 50,397	0	6,767 5,140	92,690 90,218	0					52,918			_
012	291	357	19,271	4,268 3,917	11,170	50,397	0	4.895	89,456	0					53,458 53,685			_
2012	344	378	18,899	4,656	11,170	51,539	0	5,148	91,249	7					53,442			_
2014	380	382	20,612	4,562	11,145	52,473	0	5,360	94,152	6					53,397			_
015	358	375	19,373	4,179	10,871	54,838	0	5,554	94,815	6					54,116			_
016	287	344	17,995	4,265	11,867	56,127	0	R 5.498	R 95,752	12					54,802			_
017	296	341	19,853	4,108	12,691	55,675	0	R 4.660	R 96,988	14					54,830			_
018	179	360	21,758	4,447	13,244	56,199	0	R 5,337	R 100,986	13					56,450			-
2019	187	383	22,168	5,124	13,760	57,201	0	R 5,586	R 103,839	13					56,521			_
2020	160	377	20,027	4,595	7,607	48,814	0	R 5,683	R 86.726	15					56,050			-
2021	144	R 367	R 21,833	4,656	11,510	54,002	0	R <sub>5,540</sub>	R 97,541	14					56,351			-
2022	153	376	27,099	5,151	13,012	60,012	0	5,933	111,206	15					56,763			_
									Trillion	Btu								
960	43.1	156.7	24.4	12.1	2.6	86.5	11.2	24.3	161.0	(s)	6.5	NA	NA	NA	16.5	383.7	R 33.3	R 417.
970	46.5	225.1	30.2	17.9	42.3	137.1	8.0	36.3	271.7	(s)	8.4		NA	NA	36.8	588.6	_ <sup>R</sup> 75.4	R 664.
980	45.2	223.2	63.8	14.3	26.7	180.1	10.3	29.9	325.1	(s)	10.7	NA	NA	NA	71.2	667.0	R 151.5	R 818
990	16.6	234.3	58.6	11.3	34.6	186.8	0.1	34.8	326.2	0.0	10.8		0.4	0.2	105.1	679.9	R 253.7	R 933
2000	11.0	304.1	89.5	23.6	43.0	246.7	0.0	39.7	442.5	0.0	11.1	0.1	0.6	0.2	146.8	912.5	R 345.2	R 1,257
2005	9.9	388.1	101.9	21.3	69.9	266.4	0.0	33.7	493.2	0.0	8.2		0.6	0.2	165.0	1,061.3	R 358.3	R 1,419
2006	8.0	368.7	109.8	24.4	73.6	268.1	(s)	33.8	509.7	0.0	7.4		0.6	0.2	169.7	1,063.2	R 369.1	R 1,432
2007	5.6	391.5	113.8	21.9	76.7	268.6	0.0	37.8	518.9	0.0	8.1	5.2		R 0.2	175.0	1,100.3	R 363.2	R 1,463
8008	12.4	404.5	114.8	18.3	74.6	257.0	(s)	28.9	493.6	0.0	9.0		0.7	R 0.4	177.9	R 1,100.6	R 351.2	R 1,451
2009	9.7	414.5	108.1	15.4	61.5	256.6	0.0	33.2	474.8	0.0	11.0		0.7	R 0.5 R 0.6	174.1	R 1,086.7 R 1,120.5	R 344.1 R 360.7	R 1,430 R 1,481
2010	13.5 6.5	415.7 393.5	111.3 111.2	15.7 16.4	64.8 63.2	259.1 255.2	0.0	43.1 32.3	494.0 478.2	0.0	11.7 11.3		0.7 0.7	R 0.8	180.6 182.4	R 1,078.0	R 348.7	** 1,481 R 1.426
2012	6.5	393.5	111.2	15.0	63.2	255.2 255.0	0.0	32.3	478.2 474.2	0.0	9.6		0.7	R 1.0		R 1,050.6	R 343.8	R 1,394
2013	7.6	391.1	108.9	17.9	62.4	260.8	0.0	32.3	482.3	R (s)	12.2		0.8	R 1.2	182.3	R 1,082.3	R 338.1	R 1,420
2014	8.6	399.6	118.8	17.5	63.2	265.5	0.0	33.8	498.7	R (s)	12 4			R 1.5	182.2	R 1,108.1	R 324.1	R 1,432
015	8.1	395.5	111.6	16.1	61.6	277.3	0.0	35.0	501.6	R (s)	13.8			R 1.7	184.6	R 1,110.9	R 328.9	R 1,439
016	6.6	363.8	103.6	16.4	67.3	283.7	0.0	35.0	506.0	R (s)	13.0			R 1.9	187.0	R 1,083.9	R 311.4	R 1,395
017	6.4	360.9	114.3	15.8	72.0	281.3	0.0	R 29.5	R 512.9	R (s)	13.1	7.7	0.8	R 2 1	197 1	R 1.087.9	R 311.0	R 1.398
018	3.8	385.1	125.3	17.1	75.1	284.0	0.0	R 34.0	R 535.5	R (s)	13.5		0.8	R 2.3	192.6	R 1,137.7	R 309 8	R 1,447
2019	4.3	413.6	127.7	19.7	78.0	289.0	0.0	R 35.6	R 550.0	R (s)	15.7	7.3		H 2.5	192.8	R 1,183.0	R 301.3	R 1,484
2020	3.9	R 403.2	115.3	17.6	43.1	246.6	0.0	R 36.3	R 459.0	R (s)	R 10.7	7.1	0.8	R 2.7	191.2	R 1,075.2	H 275.7	R 1,350
2021	3.5	<sup>R</sup> 387.6	<sup>R</sup> 125.8	17.9	65.3	272.7	0.0	R 35.4	<sup>R</sup> 517.1	R (s)	R 10.7	7.4	8.0	R 3.9	192.3	R 1,120.4	R 269.9	<sup>R</sup> 1,390
2022	3.6	393.8	156.2	19.8	73.8	303.0	0.0	37.9	590.7	0.1	14.4	8.0	0.8	5.0	193.7	1,206.1	259.9	1,466.

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Colorado

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	152	52	148	2,092	50	2,289				1,776			
1965	182	52 65	90	2.219	285	2.594				2.521			
1970 1975	129	83	168 283	3,073 2,855	112	3,353 3,174				3,859 5,142			
1975 1980	6 21	100 90	283	2,855	36	3,174				5,142			
1980	34	90	/8 95	1,666 1,386	23 49	1,768 1,531				6,693 8,861			
1990	12	90 92	78 95 27	1,693	23 49 22 20	1,743				9.787			
1995 2000	3	104	35 62	2,183	20	2.238				11,307 14,029			
2000	9	116	62	2,815	29	2,906				14,029			
2005	11 6	124 119	9	3,371	36 16	3,416				16,436			
2006 2007	0	131	8	2,672 3,036	6	2,698 3,050				16,952 17,634			
2008	Ö	134	8	3,605	4	3,617				17,004			
2009 2010	ŏ	129		3.219	7	3,238				17,720 17,413			
2010	0	131	11 10	3,219 3,218	6	3,238 3,234				18,102			
2011	0	130	14	3,119	2	3,136				18,277			
2012	0	116	13 14 28 48	2,903	1	2,917				18,220			
2013	0	135	14	3,429	2	3,444				18,529			
2014 2015	0	132 122	48	3,130 2,799	i	3,159 2,848				18,093 18,385			==
2016	Ö	122	11	2.889	2	2.902				18.834			
2017	0	119	31	2,692	1	2,724				18,615			
2018	0	128	27	3,022	(s) 2	3,049				19,287			
2019 2020	0	143 137	36	3,433 3,094	2	3,470				19,405 20,483			
2020	0	137	36 54 23	3,094 3,073	ļ	3,149 3,097				20,483			
2022	0	142	23	3,131	1	3,155				20,594			
				-, -		-,	Trillion Btu			-7			
1000	2.5										77.4	B 40.0	P oo o
1960	3.5 4.2	54.1 59.6	0.9 0.5	8.0 8.5	0.3 1.6	9.2 10.7	4.2 3.6	NA NA	NA NA	6.1 8.6	77.1 86.6	H 12.2	R 89.3
1965 1970	2.8	80.4	1.0	0.5 11.8	0.6	13.4	3.9	NA NA	NA NA	13.2	113.8	R 27 0	R 140 7
1975	0.1	89.5	1.6	11.0	0.2	12.8	4.7	NA	NA	17.5	124.7	R 12.2 R 16.9 R 27.0 R 35.8	R 103.5 R 140.7 R 160.5 R 173.7 R 199.7 R 214.3 R 247.8 R 394.9 R 324.5 R 336.3 R 336.7 R 335.7
1980 1985	0.5 0.7	89.2	0.5 0.6	6.4	0.1	7.0	9.2 15.1	NA	NA	22.8 30.2	125 1	n 48 6	R 173.7
1985	0.7	90.1	0.6	5.3	0.3	6.2	15.1	NA	NA	30.2	138.3	H 61 /	R 199.7
1990 1995 2000	0.2 0.1	92.2 105.8	0.2 0.2	6.5 8.4	0.1 0.1	6.8 8.7	7.3 7.2	0.1 0.1	0.2	33.4	133.7 157.6	R 80.6 R 90.2 R 112.6	P 214.3
2000	0.1	116.1	0.2	10.8	0.1	11.3	7.2 8.2	0.1	0.2 0.2	38.6 47.9	182.3	R 112 6	R 247.8
2005	0.2	127.7	0.1	12.9	0.2	13.2	6.8	0.1	0.2	56.1	202 7	R 121.8 R 125.8 R 124.9 R 119.4	R 324.5
2005 2006 2007	0.1	122.9	0.1	10.3	0.2 0.1	10.4 11.7	6.1	0.1	0.2 0.2 R 0.2	56.1 57.8	195.7 211.5	R 125.8	R 321.5
2007	(s)	134.6	(s) (s) 0.1	11.7	(s)	11.7	6.7	0.2	R 0.2	60.2	211.5	R 124.9	R 336.3
2008	0.0	136.0	(s)	13.8	(s)	13.9	7.5 9.3	0.2	R 0.3	60.5	H 216.4	H 119.4	H 335.7
2009 2010	0.0	130.9 133.5	0.1	12.4 12.4	(s)	12.5 12.5	9.3 10.0	0.2 0.3	R 0.3 R 0.4	59.4 61.8	<sup>n</sup> 210.3	R 117.4 R 123.4	R 327.7
2010	0.0 0.0	133.3	0.1 0.1	12.4	(s)	12.3	10.0	0.3	R 0.4	62.4	H 217.3	R 110 2	R 336 6
2011 2012	0.0	134.2 120.1	0.1	12.0 11.2	(s)	12.1 11.2	9.7 8.1	0.3	R 0.5 R 0.6	62.4 62.2	R 216.4 R 210.3 R 216.6 R 217.3 R 200.8	R 116.7	R 317.5
2013	0.0	139.5	0.1	13.2	(s)	13.3	10.6	0.3	H 0.7	63.2	R 225.9	R 119.2 R 116.7 R 117.2	R 343.2
2013 2014	0.0	138.1	0.2	12.0	(s)	12.2	10.7	0.3	Rna	61.7	R 225.9 R 222.3 R 214.4	R 109.8 R 111.8	R 336.6 R 317.5 R 343.2 R 332.1 R 326.2
2015	0.0	129.2	0.3	10.8	(s)	11.0	11.7	0.3	R 1.0 R 1.2	62.7	H 214.4	H 111.8	H 326.2
2016 2017	0.0 0.0	129.0 125.6	0.1 0.2	11.1 10.3	(s)	11.2 10.5	10.7 10.7	0.3 0.3	P 1.2 P 1.4	64.3 63.5	R 215.2 R 210.5	R 107.0 R 105.6	R 216 1
2017	0.0	137.1	0.2	10.3	(8)	10.5	10.7	0.3	R 1.5	65.8	R 226.1	r 105 8	R 331 Q
2019	0.0	154.0	0.2	13.2	(s)	13.4	13.3	0.3	H 1 7	66.2	H 247.0	R 103.4	R 350.4
2020	0.0	146.0 R 142.9	0.3	11.9	(s)	12.2 11.9	13.3 R 8.3 R 8.3	0.3	Ria	69.9	R 236.9 R 235.2	R 103.4 R 100.7 R 98.8	R 322.2 R 316.1 R 331.9 R 350.4 R 337.7 R 334.0
2021	0.0	H 142.9	0.1	11.8	(s)	11.9	H 8.3	0.3	R 2.9 3.7	70.4	H 235.2	H 98.8	H 334.0
2022	0.0	148.9	0.1	12.0	(s)	12.2	11.7	0.3	3.7	70.3	245.1	94.3	339.4

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Colorado

					Pet	roleum				Biomass						
ı	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	105	28	123	375	66	135	56	755	NA			NA	1,772			
1965 1970	137 101	39	123 75 140	398 551	376 148	135 186 124	56 49 38	1,083	NA NA			NA NA	2,842 4,594			
1970	15	59 76	235	512	48	109	75	1,001 979	NA NA			NA NA	4,594 6,276			
1980 1985	79 122	67 69	339 610	299 249	6 15	312 176	3	959 1,050	NA NA			NA NA	7,277 12,344			
1990	46	66	442	303	10	265	Ó	1,020	0			(s)	14,420			
1995	17	67	703	391	5 8	58	0	1,157	0			(s)	14,300			
2000 2005	71 122	61 62	605 625	505 657	31	128 41	0	1,245 1,353	0			(s) (s)	19,028 19,846			
2006	60	60	658	375	16	42	0	1,091	0			1	20,153			
2007 2008	12 288	63 66	447 504	450 587	5 3	43 43	0	944 1,137	0			1 22	20,508 20,551			
2009	285	62	1,431	447	4	43	Ō	1,925	0			35	20,008			
2010 2011	264 139	58 56 52	1,008 1,014	495 740	5 3	42 43	0	1,550 1,801	0			62 102	19,597 19,889			
2012	10	52	794	515	1	43	ŏ	1,354	ŏ			130	19,997			
2013 2014	5 6	59 58	762 820	525 624	2	45 42	0	1,333 1,487	7 6			158 187	20,098 20,129			
2015	3	54	894	578	1	1,411	ŏ	2.884	6			192	20,408			
2016 2017	1 (s)	54 53	532 890	647 834	1 (s)	1,425 1,447	0	2,605 3,171	12 14	==		209 225	20,800 20,641			
2018	Ò	56	714	694	1	1,477	0	2,886	13			235	21,023		==	
2019 2020	0	62 57	1,068 778	933 885	1	1,488 1,498	0	3,490 3,162	13 15			236 241	21,111 20,042			
2021	(s)	59	830	920	i	1,512	Ö	3,264	14			297	20,584			
2022	(s)	62	843	1,174	1	1,557	0	3,574	15			351	21,059			
									lion Btu							
1960 1965	2.4 3.1	29.5 35.8	0.7 0.4	1.4 1.5	0.4 2.1	0.7 1.0	0.4 0.3	3.6 5.4	NA NA	0.1 0.1	NA NA	NA NA	6.0 9.7	41.6 54.1	R 12.2 R 19.1	R 53.8 R 73.2
1970	2.2	57.5	0.8	2.1	0.8	0.7	0.2	4.7	NA	0.1	NA	NA	15.7	80.2	H 32 1	H 112.3
1975 1980	0.3 1.7	68.3 66.6	1.4 2.0	2.0 1.1	0.3 (s)	0.6 1.6	0.5 (s)	4.7 4.8	NA NA	0.1 0.2	NA NA	NA NA	21.4 24.8	94.8 95.4	R 43.7 R 52.8	R 138.5 R 148.3
1985	2.6	68.9	3.6	1.0	0.1	0.9	(s) 0.0	5.5	NA	0.4	NA	NA NA	42.1	116.4	Rese	R 202.0 R 237.3
1990 1995	1.0 0.4	66.5 67.6	2.6 4.1	1.2 1.5	0.1	1.4 0.3	0.0 0.0	5.2 5.9	0.0 0.0	1.1 1.4	0.2 0.2	(s) (s)	49.2 48.8	118.5 122.3	R 118.8 R 114.1	<sup>H</sup> 237.3 <sup>R</sup> 236.4
2000	1.5	60.8	3.5	1.9	(s) (s)	0.7	0.0	6.2	0.0	1.5	0.2	(s)	64.9	134.3	R 152.7 R 147.1	R 286.9 R 288.4
2005	2.7	63.8	3.6	2.5	0.2 0.1	0.2 0.2	0.0 0.0	6.5	0.0	1.1	0.2	(s)	67.7 68.8	141.3 137.6	R 147.1	R 288.4
2006 2007	1.3 0.3	61.7 65.0	3.8 2.6	1.4 1.7	(s)	0.2	0.0	5.6 4.6	0.0 0.0	1.0 1.1	0.2 0.2	(s) (s)	70.0	1/10 0	R 149.6 R 145.2	R 287.1 R 285.2
2008	7.0	66.8	2.9	2.3	(s)	0.2	0.0	5.4	0.0	1.1	0.2	R 0.1 R 0.1	70.1	R 149.7 R 148.9	R 138.4 R 134.9	H 288.2
2009 2010	6.5 6.1	63.4 58.6	8.3 5.8	1.7 1.9	(s) (s)	0.2 0.2	0.0 0.0	10.2 8.0	0.0 0.0	1.3 1.3	0.2 0.2	Rna	68.3 66.9	R 140 5	R 133 6	R 283.8 R 274.0
2011	3.2	57.6	5.9	2.8	(s)	0.2	0.0	8.9	0.0	1.2	0.2	R 0.3	67.9	H 138.7	R 129.7 R 128.1	R 268.4 R 258.1
2012 2013	0.2 0.1	53.8 60.8	4.6 4.4	2.0 2.0	(s) (s)	0.2 0.2	0.0 0.0	6.8 6.6	0.0 R (s)	1.1 1.3	0.2 0.2	R 0.4 R 0.5	68.2 68.6	R 130.1 R 137.5	H 128.1 R 127.1	H 264.6
2014	0.2	60.6	4.7	2.4	(s)	0.2	0.0	7.3	R (s)	1.3	0.2	Rne	68.7	H 138 3	R 122.2	R 260.5
2015 2016	0.1 (s)	57.0 57.4	5.2 3.1	2.2	(s) (s)	7.1 7.2	0.0 0.0	14.5 12.8	R (s) R (s)	1.7 1.9	0.2 0.2	R 0.7 R 0.7	69.6 71.0	R 143.2 R 143.4	R 124.1 R 118.2	R 267.2 R 261.6
2017	(s)	55.9	5.1	2.5 3.2	(s)	7.3	0.0	15.6	R (s)	2.0	0.2	Ros	70.4	R 1/// 3	H 1171	H 261 4
2018 2019	0.0 0.0	59.8 66.7	4.1 6.1	2.7 3.6	(s) (s)	7.5 7.5	0.0 0.0	14.2 17.3	H (s) R (s)	1.7 1.9	0.2 0.2	R 0.8 R 0.8	71.7 72.0	H 147.8 R 158 1	R 115.4 R 112.5	R 263.2 R 270.6
2020	(s)	61.2	4.5	3.4	(s)	7.6	0.0	15.5	R (s)	1.9	0.2	H 0.8	68.4	H 147.4	H 98.6	H 246.0
2021 2022	(s) (s)	62.5 64.6	4.8 4.9	3.5 4.5	(s) (s)	7.6 7.9	0.0 0.0	16.0 17.2	R (s) 0.1	1.9 2.2	0.2 0.2	R 1.0 1.2	70.2 71.9	R 151.3 156.6	R 98.6 96.4	R 249.9 253.0
2022	(5)	04.0	4.3	4.0	(5)	1.3	0.0	17.2	0.1	۷.٤	0.2	1.2	71.9	150.0	30.4	233.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Colorado

					Petro	eum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet	1		Thousand	d barrels	'		Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion :Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total f,k
1960	1,438	69	1,768	593 641	1,303	1,583	2,551	7,798	1				NA	1,289			
1960 1965 1970	1,698 1,657	69 82	1,768 1,994 2,228	641 953	1,303 1,039 1,036	1,583 1,254 1,128	2,893 4,929	7,821 10,273	1				NA NA	1,576			
1970	1,871	88 73	3,419	1,498	860	2,327	3,619	11,723	1				NA NA				
1980	1.757	60 48 66	3,983	1.860	695	1,640	4.127	12.304	1				NA	6,900			
1985 1990	791 729	48 66	2,054 2,712	621 975	580 408	40 13	4,365 4,870	7,659 8,978	1				NA (s)				
1995	729	85	2,749	1,294	541	(s) 0	5,440	10,023	ő				(s)	9,706			
2000	427	118	3,274	3,108	546	Ó	5,630	12,558	0				(s)	9,955			
2005 2006	300 286	178 166	3,658 4,270	1,602 3,624	1,378 1,441	0	4,798 4,824	11,437 14,160	0				(s) (s)	12,052 12,605			
2007	233	173	4,829	2,463	810	Ö	5,478	13,580	ŏ				(s)	13,113			
2008	233	183	5,998	539 328	643 641	3	4,147	11,329	0				(s)	13,822			
2009 2010	140 341	200 205	3,560 3,651	328	945	0	4,838 6,273	9,367 11,231	0				(S)	13,571 15,172			
2011	149	181	3,918	380	944	ŏ	4,661	9,903	ő				1	15,242			
2012 2013	281 339	179 175	3,979 4,199	468 656	867 847	0	4,482 4,718	9,796 10,420	0				1 2	15,415 14,753			
2013	373	183	4,199	731	734	0	4,716	11,274	0				2				
2015	355	189	4,222	648	1,171	ō	5.086	11 127	Ö				2	15,259			
2016 2017	285 295	160 161	3,399 4,544	605 514	1,207 1,217	0	R 5,046 R 4,244	R 10,257 R 10,519	0				2				
2017	179	165	5,540	664	1,217	0	R 4,244	H 12.369	0				2				
2019	187	166	5,473	695	1.242	Ö	H 5 164	rt 12.573	ō				2	15,891			
2020 2021	159 144	172 R 162	4,009 4,587	577 603	1,254 1,204	0	R 5,296 R 5,027	R 11,136 R 11,421	0				3 19				
2022	153	163	4,636	779	1,283	0	5,350	12,048	0		==		23	15,018		==	
									Trillion Bt	u							
1960	36.6	71.8	10.3	2.2	6.8	10.0	16.3	45.6	(s)	2.2	NA	NA	NA	4.4	160.6	R 8.9	R 169.4
1965 1970	44.2 41.4	74.9 85.3	11.6 13.0	2.4 3.5	5.5 5.4	7.9 7.1	18.1 31.3	45.4 60.3	(s)	2.9 4.4	NA NA	NA NA	NA NA		172.8 199.4	R 10.6 R 16.3	R 183.4 R 215.7
1975	45.8	65.6	19.9	5.3	4.5	14.6	23.0	67.3	(s) (s)	4.4	NA NA	NA NA	NA NA		198.1	H 30 7	R 228.8
1980	43.1	59.9	23.2	6.6	3.6	10.3	26.0	69.7	(s)	4.3 1.3	NA	NA	NA	23.5	R 195.3	n 50.1	n 245.4
1985 1990	17.1 15.4	47.7 66.5	12.0 15.8	2.1 3.4	3.0 2.1	0.2 0.1	28.2 31.3	45.6 52.7	(s) 0.0	1.5 2.4	0.1 0.1	NA 0.2	NA (s)		129.0 156.2	R 37.9 R 54.3	R 166.9 R 210.4
1995	15.8	86.6	16.0	4.5	2.8	(s)	35.0	58.3	0.0		0.1	0.2	(s)		194.4	R 77 4	H 271 8
2000	9.3	117.4	19.1	10.6	2.8	(s) 0.0	36.2	68.7	0.0		0.1	0.3	(s)	34.0	229.8	R 79.9	R 309 7
2005 2006	6.9 6.5	182.8 170.7	21.3 24.8	5.5 12.4	7.2 7.5	0.0	30.6 30.7	64.5 75.4	0.0 0.0	0.3 0.3	0.3 3.6	0.2 0.2	(s) (s)	41.1 43.0	294.4 298.0	R 89.3 R 93.5	R 383.7 R 301.5
2007	5.4	177.6	27.9	8.4	7.5 4.2	(s) 0.0	35.1	75.5	0.0		5.2	0.2	(s)		307.1	R 93.5 R 92.8	R 391.5 R 400.0
2008	5.4	185.4	34.7	1.8	3.3	(s) 0.0	26.3	66.1	0.0	0.4	6.8	0.3	(s)	47.2	309.8	H QQ 1	H 402 9
2009 2010	3.2 7.5	202.7 209.0	20.6 21.1	1.1 1.4	3.3 4.8	0.0	30.9 40.2	55.8 67.5	0.0	0.4 0.5	6.9 7.7	0.3 0.3	(s) (s)	46.3 51.8	313.5 342.6	R 91.5 R_103.4	R 405.0 R 446.0
2011	3.3	187.1	22.6	1.5	4.8	0.0	29.5	58.3	0.0	0.4	7.8	0.3	(s)	52.0	308.3	R 99.4	R 407.7
2012	6.3	185.6	22.9	1.8	4.4	0.0	28.3	57.4	0.0		7.7	0.3	(s)	52.6	309.3	H 00 7	R 408.0
2013 2014	7.5 8.4	181.1 190.8	24.2 28.3	2.5 2.8	4.3 3.7	0.0 0.0	29.8 31.1	60.8 65.9	0.0		7.7 7.5	0.3 0.3	(s)	50.3 51.6	307.3 R 323.8	R 93.3 R 91.7	R 400.6 R 415.5
2015	8.1	199.5	24.3	2.5 2.3	5.9	0.0	32.3	65.0	0.0	0.4	7.8	0.3	(s)	52.1	R 332.1	R 92 8	R 415.5 R 424.9
2016	6.6	169.5	19.6	2.3	6.1	0.0	32.4 R 27.1	60.4	0.0	0.4	7.6	0.3	(s)	51.5	295.4	Rasa	H 381.2
2017 2018	6.4 3.8	170.8 176.7	26.2 31.9	2.0 2.6	6.1 6.3	0.0 0.0	R 31.5	R 61.4 R 72.3	0.0 0.0		7.7 7.7	0.3 0.3	(s) (s)	52.9 54.8	R 298.9 R 314.9	R 87.9 R 88.1	R 386.8 R 403.0
2019	4.3	179.2	31.5	2.7	6.3	0.0	Raga	R 73 7	0.0	0.5	7.3	0.3	(s)	54.2	R 318.2	H 9/1 7	R 402 9
2020	3.8	R 184.1 R 171.4	23.1	2.2 2.3	6.3	0.0	R 34.1 R 32.4	R 65.7 R 67.3	0.0	0.5	7.1	0.3	, (s)	52.7 51.4	R 313.1	R 75.9 R 72.1	R 389.0 R 373.0
2021 2022	3.5 3.6	171.4	26.4 26.7	3.0	6.1 6.5	0.0 0.0	32.4	70.8	0.0	0.5	7.4 8.0	0.3 0.3	R 0.1 0.1	51.4 51.2	R 300.9 303.7	72.1 68.8	7 373.0 372.5
	0.0		23.7	3.0	3.0	0.0	0 7.0	. 5.0	0.0	0.0	0.0	0.0	0.1	31.2	530.1	30.0	0.2.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Colorado

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	25	1	1,125	2.146	93	480	280	15.023	137	19,284	0			
1965	25 6	2	1,111	2,146 1,763 2,655	81	480 3,426	280 286 286	15,023 18,097	713	25,476	0			
1970 1975	3	2 5	337 267	2,655 4,290	133 188	7,476 7,151	286	24,943 30,948	99 104	35,929 43,250	0			 
1980	(s) 0	8	265	6 554	45	4,725	302 402 366	33,275	0	45,267	0		==	
1985	0	7	142	6,277	68	7,861	366	34,986	146	49,845	0			
1990 1995	0	9 11	167 124	6,884 8,669	75 69	6,109 7,428	412 393	34,889 40,757	0	48,535 57,440	0			
2000	0	10	156	11,435	56	7,582	420	46,750	0	66,400	9			
2005	Ö	13	130	13.226	77	12.320	354	49,893	Ö	76.000	19			
2006	0	13 14	153 103	13,981 14,388	80 47	12,987	345 356	50,219	0	77,766 79,809	25 44			
2007 2008	0	16	97	14,300	109	13,530 13,163	331	51,385 49,644	0	79,609 76,688	49			
2009	ő	17	83	13,344 13,712	66	10,842	331 298	49,731	ő	74 732	44			
2010	0	14	115	14,599	24	11,428	368	50,141	0	76,675	46			
2011 2012	0	14 11	128 88	14,324 14,309	29 32 46 78	11,141 11,170	347 323	49,410 49,468	0	75,378 75,389	50 52			
2013	0	9	91	13,925	46	11,009	323 335 356	50,647	0	75,389 76,052	52 62			
2014	0	10	101	14,856	78	11,145	356	51,697	0	78.232	64			
2015 2016	0	9	84 84	14,210 14,053	155 123	10,871 11,867	382 B 264	52,255 53,495	0	77,956 R 79,987	64 65			
2017	0	8	81	14,389	68	12,691	382 R 364 R 335	53,495	0	H 80.574	73			
2018	Ö	11	97	15.477	68 63	13.244	R 329 R 319	53,468 54,471	Ö	R 82,682 R 84,305	93			
2019	0	13	100	15,592	63	13,760	H 319	54,471	0	H 84,305	114			
2020 2021	0 0	11 10	105 108	15,185 R 16,393	39 60	7,607 11,510	R 280 R 310	46,062 51,285	0	R 69,278 R 79,759	94 89			
2022	ŏ	9	112	21,597	68	13,012	399	57,172	ő	92,428	91			
							Tri	llion Btu						
1960	0.6	1.3	5.7	12.5	0.4	2.6	1.7	78.9	0.9	102.6	0.0	104.4	0.0	104.4
1965 1970	0.1 0.1	1.7 1.8	5.6 1.7	10.3 15.5	0.3 0.5	19.3 42.3	1.7 1.7	95.1 131.0	4.5 0.6	136.8	0.0 0.0	138.6 195.2	0.0 0.0	138.6 195.2
1975	(s)	4.8	1.3	25.0	0.5	40.4	1.8	162.6	0.6	193.3 232.6	0.0	237.3	0.0	237.3
1980	0.0	7.5 7.1	1.3	38.2	0.2	26.7	2.4	174.8	0.0	243.6	0.0	251.1	0.0	251 1
1985	0.0	7.1		36.6	0.3	44.5	2.2	183.8	0.9	268.9	0.0	277.6	0.0	277.6 271.5
1990 1995	0.0 0.0	9.2 11.6	0.8 0.6	40.1 50.5	0.3 0.3	34.6 42.0	2.4 2.2 2.5 2.4	183.3 212.1	0.0 0.0	261.5 307.8	0.0 (s)	271.5 319.5	0.0 (s)	271.5 319.5
2000	0.0	9.8	0.8	66.5	0.2	43.0	2.5	243.1	0.0	356.2	(s)	366.0	0.1 R 0.1	366.1
2005	0.0	13.8	0.7	77.0	0.3	69.9	2.1 2.1	259.0	0.0	408.9	0.1	422.9	R 0.1	423.0
2006 2007	0.0 0.0	13.5	0.8 0.5	81.1	0.3 0.2	73.6 76.7	2.1	260.4 264.2	0.0 0.0	418.3	0.1 0.2	432.0 441.6	0.2	432.2
2007	0.0	14.4 16.3	0.5	83.2 77.1	0.4	76.7 74.6	2.2 2.0	253.5	0.0	427.0 408.2	0.2	424.7	0.3 R 0.3	442.0 425.0
2009	0.0	17.6	0.4	79.2	0.3	61.5	1.8	253.1	0.0	396.3	0.1	414.0	0.3	414.3
2010 2011	0.0	14.6 14.7	0.6 0.6	84.3 82.6	0.1 0.1	64.8 63.2	2.2 2.1	254.1 250.2	0.0 0.0	406.1 398.8	0.2 0.2	420.8	0.3 R 0.3 R 0.3 R 0.4	R 421.1 R 414.0
2011	0.0 0.0	14.7	0.6	82.5	0.1	63.2	2.1	250.2 250.4	0.0	398.8	0.2	413.7 410.5	R 0.3	_ 410.8
2013	0.0	9.7	0.5	80.2	0.2	62.4	2.0	256.3	0.0	401.6	0.2 0.2	411.5	R 0.4	R 411.9
2014	0.0	10.2	0.5	85.6	0.3	63.2	2.0 2.0 2.2 2.3	261.5	0.0	413.3	0.2	423.7	R 0.4 R 0.4	R 424.1 R 421.5
2015 2016	0.0 0.0	9.8 8.0	0.4 0.4	81.9 80.9	0.6 0.5	61.6 67.3	2.3	264.3 270.4	0.0 0.0	411.1 421.7	0.2 0.2	421.1 429.9	R∩⊿	'' 421.5 /30.3
2017	0.0	8.6	0.4	82.8	0.3	72.0	2.2 2.0	267.9	0.0	421.7 R 425.4 437.2	0.2	434.2	R <sub>0.4</sub>	430.3 R 434.6
2018	0.0	11.4	0.5	89.1	0.3	75.1	2.0	270.2	0.0	437.2	0.3	448.9	R 0.5	H 449.5
2019 2020	0.0 0.0	13.7 11.9	0.5 0.5	89.8 87.4	0.2 0.1	78.0 43.1	1.9 1.7	275.2 232.7	0.0 0.0	445.7 365.6	0.4 0.3	459.8 _ 377.8	R 0.6 R 0.5	R 460.4 R 378.3
2020	0.0	R 10.8	0.5	R 94.5	0.1	65.3	R 1.9	259.0	0.0	R 421.9	0.3	R 433.0	R 0.4	R 433.4
2022	0.0	9.8	0.6	124.5	0.3	73.8	2.4	288.7	0.0	490.6	0.3	500.7	0.4	501.1

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— —</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Colorado

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	1,221	37	10	0	106	116	0	969		0	NA	NA	0	
1965	1,221 2,181	37 36	4	Ō	40	43	Ō	937		Ō	NA	NA	Ō	
1970	3,212	51	22	0	242	264	0	1,234		0	NA	NA	0	
1975 1980	5,710 10,124	53 32 5	619 273	0	882 171	1,501 444	0 667	1,506 1,716		0	NA NA	NA NA	0	
1985	14,295	5	113	0	8	121	-32	2,357		0	0	0	0	
1990 1995	16,315	13 23	50 28	Ö	(s) 8	50 36	0	1,420		Ő	Ö	Ö	Ŏ	
1995	16.581	23	28	0	` 8	36	0	2,131		0	0	0	0	
2000 2005	19,145 19,013	63 93 93	190 43	0	7	197	0	1,454		0	0	_0	11	
2005 2006	19,013 19,707	93	43 44	0	0 28	43 72 65 36 25 37	0	1,415 1,791		0	0	776 866	6	
2006	19,707	124	44 65	0	20	72 65	0	1,730		0	2	1 202	(s)	
2008	18,962	106	65 36 25 37	ŏ	ŏ	36	ŏ	2,039		ő	18	1,292 3,221	-1	
2009	17,351 18,979	115	25	Ö	(s)	25	Ö	1.886		Ö	26	3,164	(s) -3	
2010	18,979	93	37	0	`Ó		0	1,578		0	42	3,164 3,452	`-3	
2011	18,744	93 85 86 90 97	43 23 18 30 15	0	0	43	0	2,083		0	92	5,192	-8	
2012 2013	19,199 18,822	86	23	0	0	23	0	1,497		0	150	5,960	-1	
2013	17,877	90 97	18	0	0	18 30	0	1,206 1,764		0	234 241	7,196 7,365	-1 -7	
2015	17,529	92	15	0	0	15	0	1,614		0	238	7 469	1	
2016	16,661	92 97	17	Ö	ŏ	17	Ö	1,891		Ŏ	238 522	9,417	(s)	
2017	16.628	98	18	Ö	Ö	18	Ö	1.883		Ö	942	9,310	\ <u></u>	
2018	15,266	126	28 20	0	0	28 20	0	1,812		0	1,050	9,742	1	
2019	14,515	131	20	0	0	20	0	1,798		0	1,203	10,848	0	
2020 2021	11,477	140	20	0	0	20	0	1,654		0	1,487 1,720	13,384 15,123	0	
2021	13,400 12,275	116 127	66 66	0	0	66 66	0	1,584 1,329		0	2,392	16,909	0	
	, -			-	-		Trillion Btu	,			,	-,		
1960	25.1	38.3	0.1	0.0	0.7	0.7	0.0	R 3.3	0.0	0.0	NA	NA	0.0	R 67.4
1960 1965	25.1 46.5	38.3 32.4	(s)	0.0	0.7 0.3	0.3	0.0	Rag	0.0	0.0	NA	NA	0.0	R 82.4
1970	69.1	49.9 52.7	0.1	0.0	1.5 5.5	1.6 9.2	0.0	R 4.2	0.0	0.0	NA	NA	0.0	R 124 9
1975	113.1	52.7	3.6	0.0	5.5	9.2	0.0	R 4.2 R 5.1 R 5.9	0.0	0.0	NA	NA	0.0	R 180.1 R 248.2
1980	202.4	31.3 4.9	1.6	0.0	1.1	2.7	7.3	R 8.0	0.0	0.0	NA	NA	0.0	R 248.2 R 291.8
1985	278.7 320.8	13.4	0.7	0.0 0.0	(s)	0.7	-0.3 0.0	o.u R 4 8	(s) 0.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0	T 291.0
1990 1995	328.0	24.1	0.3 0.2	0.0	(s)	0.3 0.2	0.0	R 4.8 R 7.3	0.1	0.0	0.0	0.0	0.0 0.0	R 338.5 R 358.9
2000	376.9	66.8	1.1	0.0	(s)	1.2	0.0	H 5.0	0.2	0.0	0.0	0.0	(s)	R 449.0
2005	376.8	95.9 96.5	0.3 0.3	0.0	0.0	0.3	0.0	R 4.8	0.5	0.0	0.0	R 2.6	(s)	R 449.0 R 479.6
2006	386.4	96.5	0.3	0.0	0.2	0.4	0.0	R 6.1	0.5	0.0	0.0	R 3.0	(s)	H 491 4
2007 2008	382.9 373.0	128.4	0.4 0.2	0.0	0.0	0.4	0.0 0.0	R 5.9 R 7.0	0.6 0.7	0.0	(s) P 0.1	R 4.4 R 11.0	(s)	R 520.6 R 500.8
2008	373.0 340.5	110.4 119.2	0.2 0.1	0.0 0.0	0.0	0.2 0.1	0.0	'' 7.0 R 6.4	0.7 0.8	0.0 0.0	R 0.1	" 11.0 R 10.9	(s) (s)	11 500.8 R 475 0
2009	340.5 369.1	95.2	0.1	0.0	(s) 0.0	0.1	0.0	R 6.4 R 5.4 P 7.1	0.8	0.0	R 0.1	R 10.8 R 11.8 R 17.7	(S) (S)	R 475.8 R 481.4 R 475.6
2011	362.4	88.1	0.2	0.0	0.0	0.2	0.0	R 7.1	0.9	0.0	R 0.1 R 0.3	R 17.7	(s)	R 475 6
2012	363.6	90.1 94.0	0.1	0.0	0.0	0.1	0.0	R 5.1 R 4.1	0.8	0.0	R 0.5	R 20.3	(s)	R 479.4
2013	363.6 355.9	94.0	0.1 0.1	0.0	0.0	0.1	0.0 0.0	R 4.1	1.2	0.0	R 0.5 R 0.8 R 0.8	R 20.3 R 24.6 R 25.1 R 25.5 R 32.1	(s)	R 479.4 R 479.6
2014	342.0	101.9	0.2	0.0	0.0	0.2	0.0	R 6.0	1.8	0.0	H 0.8	H 25.1	(s)	R 476.6 R 463.2 R 461.5
2015	332.0	99.4	0.1	0.0	0.0	0.1	0.0	R 5.5 R 6.5	1.1	0.0	R 0.8 R 1.8	n 25.5	(s)	n 463.2
2016 2017	314.9	105.0	0.1 0.1	0.0 0.0	0.0 0.0	0.1 0.1	0.0 0.0	1 6.5 R c 4	2.3	0.0 0.0	<sup>n</sup> 1.8 R 3.2	1 32.1 R 21 0	(s)	1 461.5 R 457.0
2017	309.4 280.6	105.7 138.5	0.1	0.0	0.0	0.1	0.0	R 6.4 R 6.2	2.4 2.3	0.0	R36	R 33 2	0.0 (s)	R 457.8 R 462.9
2019	269.1	146.1	0.1	0.0	0.0	0.1	0.0	R61	2.3	0.0	R 4.1	R 31.8 R 33.2 R 37.0	0.0	H 463 U
2020	213.2	154.0	0.1	0.0	0.0	0.1	0.0	H 5 6	2.4	0.0	R 4.1 R 5.1	R 45.7 R 51.6	0.0	H 424.4
2021	249.0	126.5	0.4	0.0	0.0	0.4	0.0	R 5.4 4.5	2.3	0.0	R 5.9 8.2	R 51.6	0.0	H 439.8
2022	229.6	136.6	0.4	0.0	0.0	0.4	0.0	4.5	2.3	0.0	8.2	57.7	0.0	437.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Connecticut

						Petroleum								
						retroleum				-	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>9</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				м	illion kilowatthour	s	Thousan	d barrels
1000	0.054		22.222	1.000	1 100	10.010	11.000	0.070	00.000		404			
1960 1965	3,851 4,957	28 41	23,369 21,186	1,092 1,383	1,129 1.411	19,349 22.933	14,622 17.159	3,678 3,625	63,238 67.696	0	424 187	0 0	NA NA	NA NA
1965 1970	4,957 2,060	41 61	24,117	1,383 1,854	1,411 2,897	22,933 28,638	17,159 35,595 33,819	3,482	96,584	3,604	187 329	0	NA	NA
1971 1972	1,555 184	61 64	24,101 24,773	1,879 2,112	2,191 2,809	29,539 30,806	33,819 40,697	2,731 3,129	67,696 96,584 94,260 104,327	7,767 7,777	391 538	0 0	NA NA	NA NA
1973	184 112	63	25.440	2 176	2 509	31,594	43 290	2.983	107 993	4.303	447	Ŏ	NA	NA
1974 1975	276 55 49 48	66 64	23,201 21,613	2,137 2,209	2,434 2,124	31,594 31,504 31,822	37,632 32,512	2,466 2,537	99,374 92,817	7,970 8,135	428 493	0	NA NA	NA NA
1976	49	66 64	24,216	2,390 2,420	1.946	32,626	32,800	2,797	96,776	12,330	383	0	NA	NA NA
1977	48	64	23,774	2,420	2,167	33.119	32,164	2.466	96,111	13.174	431	0	NA	NA
1978 1979	33 44	65 68	23,577 28,484	2,187 1,470	2,128 2,382	33,225 31,492	34,224 26,913	2,679 2,268	98,019 93,010	13,863 12,706	359 461	0	NA NA	NA NA
1980	16	73 77	22.304	1.501	1 973	30 205	29,334	2.097	87,413	11.835	256	Ö	NA	NA
1981 1982	38 31	77 78	19,724 20,505	1,336 1,418	1,580 1,076	30,252 30,055	29,334 21,540 21,291	2,220 2,074	87,413 76,651 76,419	12,673 13,625	260 371	0	26 11	NA NA
1983	29	74	16.904	1,416	957	30,534	23.325	1.969	75,115	11,588	371	0	3	NA
1983 1984	29 59	81	16,904 20,551	1,426 1,401	957 1,005	30,534 30,855	23,325 25,087	1,969 2,693	75,115 81,592	11,588 14,292	378 377	0	12	NA
1985 1986	815 809	78 79	20,680 22,427	1,283 1,134	1,085 1,255	30,999 31,860	21,040 22,279	3,719 3,469	78,806 82,425	12,721 18,667	264 373	0	31 12	NA NA
1987	815	92	23.642	1,558 1,518	1.784	32.428	18 951	3.562	82,425 81,924	20.540	343	ő	0	NA
1988 1989	881	88 99	25,577	1,518 1,586	2,156 2,242	32,838 32,273	21,861 22,157	3,379	87,328 89,167	22,251	330 442	0	0	NA NA
1909	903 1.493	105	27,656 23,264	1,500	2,242	31 140	16.554	3,254 2,742	77.636	19,563 19,776	571	0	0	NA NA
1990 1991	1,493 1,499	112	23,264 22,282	1,592 1,485	2,344 2,246	31.870	16,554 14,526	3.099	77,636 75,508	12.243	433	Ō	32	NA
1992 1993	1,523 1,474	123 123	25,063 23,123	1,885 1,684	2,293 2,312	32,596 33,103	10,865 8,820	2,659 2,600	75,360 71,643	16,771 21,802	424 415	0	134 163	NA NA
1994	1.512	130 141	22.035	1.487	2.452	32.668	7.567	2.682	68.891	20.160	481	0	110	NA
1995	1,594	141	21,322	1,410	2,489	30,591	6,803	2,888	65,503	18,749	364	0	24 80	NA NA
1996 1997	1,606 1,745	135 145	22,170 22,176	1,517 1,732	2,718 2,372	32,663 32,934	10,407 14,673	2,689 2,411	72,165 76,299	6,225 -125	626 447	0	80 85	NA NA
1997 1998	1,745 1,272	145 132	19.886	1,732 2,243	2,372 2,214	32,934 33,589	14,673 14,982	1.960	76,299 74,875	-125 3,243	448	Ö	85 82	NA
1999 2000	619 1,477	152 160	22,407 23,578	1,673 2,130	2,456 2,599	36,283 34,933 35,437	14,429 11,835	2,090 2,171	79,338 77,245	12,675 16,365	422 526	0	87 97	NA NA
2001	1.627	146	24.817	2 422	2.356	35,437	9 033	1.816	75.880	15.428	286	0	29	1
2002	1,512	178	22,382	2,065 2,954	2,201	37,436 40,498	4,437 4,692	1,540	70,062	14,918	335	0	84	1
2003 2004	2,055 2,136	154 163	26,670 28,850	2,954 3,057	2,108 2,382	40,498 43,565	4,692 4,093	2,853 3,094	79,776 85,041	16,078 16,539	564 463	0	501 3,681	1 2
2005	2,076	168	26.518	3,057 3,973	2,461	38.601	6,609	3.651	85,041 81,814	16,539 15,562	463 478	Ö	983	2 6
2006 2007	2,248 1,939	173	24,317 24,281	3,698 3,364 2,371	2,249 2,056	37,710 37,906	3,071 2,793	3,159 2,004	74,204 72,403	16,589 16,386	544 363	0	2,872 3,503	19
2007	1,939 2,221	180 167	24,281 22,956	3,364 2,371	2,056 1,908	37,906 36,236	2,793 1 154	2,004 889	72,403 65,513	15,433	556	0	3,503 2,910	25 22
2009	1,196	185	21,967	2,627	1,408	36 241	1,154 777	2,680	65 700	16,657	510	ő	3,503	23
2010 2011	1,366	199	20,947	2,461	1,938	35,726 34,768 34,100	876	2,735	64,682 62,191 59,066	16,750	391 567	0	3,791	19
2012	325 415	230 229	19,960 18,326	2,674 2,310	1,995 2,123	34,100	332 219	2,462 1,988	59.066	15,928 17,078	567 312	0	3,592 3,453	52
2013	419	234	19 320	2,813 2,790 3,064	1.548	34,183 33,755 35,189	346	1,966 2,357 2,292 1,757 R 2,174 R 2,282 R 2,164 R 2,060 R 2,070	60,567	17,080 15,841 17,411	402 434 302	0	3,521 3,507 3,667	19 25 22 23 19 63 52 259 235 281
2014 2015	499 359	236 254	19,347 20,047	2,790 3,064	1,786 1,571	33,755 35,189	659 427	2,292 1 757	60,630 62,055	15,841 17 411	434 302	0	3,507 3,667	235 281
2016	128 137	248	16,452 16,339	2,790 2,934	1,657 2,152	35,817 35,671	120	R 2,174	R 59,010	16,575 16,500	224 332	13	3,710	413
2017	137	240	16,339	2,934	2,152	35,671	221	R 2,282	R 59,599	16,500	332	13	3,713	413 434 257 197
2018 2019	221 48	278 285	18,626 17,938	3,192 3,142	2,503 1,984	35,851 35,446	340 40	R 2,060	R 60.610	16,881 16,733	555 428	12 12	3,700 3,725	257 197
2020	4	289	16 358	2.991	1.052	29.584	70		R 52,135	15.715	326	12	3 138	202
2021 2022	158 0	289 R 297 298	R 18,347 18,075	3,045 2,656	1,549 1,781	32,269 34,650	100 531	R 1,549 2,256	59,066 60,567 60,630 62,055 R 59,010 R 59,599 R 62,677 R 60,610 R 52,135 R 56,858 59,949	17,217 16,464	478 312	13 13	3,445 3,708	R 180 144
2022	U	290	10,075	2,000	1,/01	J4,00U	331	2,200	39,949	10,404	312	13	3,708	144

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Connecticut (trillion Btu)

					Fossi	fuels						Fossil fuels	
					1 0001	Petroleum			T		-	(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	101.7	29.4	136.1	4.2	6.4	101.6	91.9	22.0	362.2	493.4	29.4	136.1	101.6
1965 1970	128.6	41.7	123.4	4.2 5.3 7.0 7.0 7.9	8.0	120.5	107.9	21.9	386.9 559.0	557.2	41.7	123.4	120.5
1970	48.6	61.5	140.5	7.0	16.4	150.4	223.8	20.9	559.0	669.1	61.5	140.5	150.4
1971 1972	36.4 4.2	62.4 65.0	140.4 144.3	7.0	12.4 15.9	155.2 161.8	212.6 255.9	16.8 19.3	544.3 605.0	643.2 674.3	62.4 65.0	140.4 144.3	155.2 161.8
1972	2.6	63.5	148.2	7.9 8.1	14.2	161.0	272.2	18.5	605.0	693.3	63.5	144.3	166.0
1973 1974	6.5	63.5 67.1	135.1	8.1 7.9	13.8	166.0 165.5	236.6	18.5 15.2	627.1 574.0	693.3 647.7	63.5 67.1	148.2 135.1	165.5
1975	1.3 1.2	64.3	125.9	8.1	12.0	167.2 171.4	204.4	15.7 17.0	533.3 555.4 550.6	598.9	64.3 66.4	125.9	167.2 171.4
1976 1977	1.2	66.4 64.7	141.1	8.7 8.8	11.0	171.4	206.2	17.0	555.4	623.0	66.4	141.1	171.4
19//	1.2 0.8	64.7	138.5	8.8	12.3 12.0	174.0	202.2	14.9	550.6	616.5	64.7	138.5	174.0
1978 1979	1.1	66.0 68.8	137.3 165.9	7.9 5.4 5.5 4.9 5.2	13.5	174.5 165.4	215.2 169.2	16.4 13.8	563.3 533.2	630.2 603.0	66.0 68.8	137.3 165.9	174.5 165.4
1980	0.4	74.0	129.9	5.5	11.2	158 7	184.4	12.6	502.2	576.6	74.2	129.9	158 7
1981	0.9	77.1	114.9	4.9	8.9	158.9	135.4	13.4	436.5 435.0	514.5	78.7	114.9	158.9
1982	0.8	79.3	119.4	5.2	6.1	157.9	133.9	12.6	435.0	515.0	80.4	119.4	157.9
1983 1984	0.7	76.3	98.5	5.2	5.4	160.4 162.1	146.6	11.9	428.1 466.5	505.1	76.6	98.5	160.4 162.1
1984	1.5 21.3	83.2 80.2	119.7 120.5	5.1 4.7	5.7 6.1	162.8	157.7 132.3	16.2 23.2	466.5 449.6	551.2 551.1	83.5 80.6	119.7 120.5	162.1 162.8
1986	21.2	81.0	130.6	4.7 4.2 5.8	7.1	167.4	140.1	21.8	471.1	551.1 573.3 581.3	80.6 81.3 94.7	130.6	167.4
1986 1987	21.4	94.5	137.7	5.8	10.1	167.4 170.3	119.1	22.3	471.1 465.4	581.3	94.7	137.7	170.3
1988 1989	23.1 23.8	90.7	149.0	5.6 5.9 5.9 5.6 7.1	12.2	172.5 169.5	137.4	21.0 20.3	497.8 508.8	611.6	90.9 102.0	149.0	172.5 169.5
1989 1990	23.8 38.5	101.7 108.8	161.1 135.5	5.9	12.7 13.3	169.5 163.6	139.3 104.1	20.3 17.1	508.8 439.5	634.3 586.8	102.0 109.0	161.1 135.5	169.5 163.6
1990	38.6	115.7	129.8	5.9	12.7	167.4	91.3	19.6	439.5 426.4	580.6	115.8	129.8	167.4
1992	39.2	126.1	146.0	7.1	13.0	171 2	68.3	16.8	422 4	587.7	126.2	146.0	171 2
1993	37.3	125.8	134.7	6.3	13.1	172.1 169.9	55.5	16.4	398.0 382.2	561.1	125.9	134.7 128.2	172.7 170.3
1994	38.6	134.4	128.2	5.6	13.9	169.9	47.6	17.0	382.2	555.2	134 4	128.2	170.3
1995 1996	40.8	144.9	124.1 129.0	5.3 5.7	14.1 15.4	159.1 169.9	42.8 65.4	18.3	363.7 402.4	549.4 582.6	144.9 139.2	124.1 129.0	159.2 170.2
1996	41.1 45.0	139.1	129.0	5.7	13.4	171.1	00.4	16.9 15.0	402.4 427.4	621.0	139.2	129.0	170.2 171.4
1998	32.6	148.6 134.9	129.1 115.7	6.5 8.5 6.3	12.6	174.5	92.3 94.2	11.8	417.2	584.6	134.9	129.1 115.7	174.8
1999	15.2	155.9	130.4	6.3	13.9	188.4	90.7	12.6	442.4	613.5	134.9 155.9	130.4	188.7
2000	36.2	163.7	137.2	8.0 9.0	14.7	181.3 184.2	74.4	13.1	428.7	628.7	163.7	137.2	181.7
2001	40.0	149.3	144.4	9.0	13.4	184.2	56.8	11.1	418.9	608.2	149.4	144.4 130.2	184.3
2002 2003	34.2 41.9	181.7 157.3	130.2 155.2	7.8 11.0	12.5 12.0	194.3 208.7	27.9 29.5	9.5 17.9	382.3 434.3	598.2 633.4	181.7 157.3	130.2 155.2	194.6 210.5
2003	44.0	165.9	167.9	11.3	13.5	213.6	25.7	19.3	451.4	661.2	166.1	167.9	226.4
2005	42.0	171.2	154.3	14.4	14.0	213.6 197.0	41.6	22.7	443.9	657.1	171.4	154.3	200.4
2006	45.7	175.9	141.1	13.3	12.8	185 6	19.3	19.6	391.6	613.2	176.0	141 1	195.5
2007 2008	39.9 45.2	183.6 169.8	140.4 132.7	12.2 9.1	11.7	182.8 174.9	17.6 7.3	12.4 5.2	377.0 339.9	600.5 554.9	183.6 169.8	140.4 132.7	194.9 185.0
2008	45.2 26.3	188.6	126.5	9.1	10.8 8.0	174.9	7.3	5.2 17.0	339.9	554.9 553.6	109.8	132.7	185.0 184.5
2010	28.7	203.8	120.7	10.0 9.5	11.0	172.3 167.9	4.9 5.5	17.4	338.8 332.0	564.5	188.6 203.8	121.0	181.0
2011	6.1	236.0	114.5	10.3	11.3	163.6	2.1	15.7	317.4	559.5	236.0	115.2	176.0
2012	9.3	236.3	105.0	8.9	12.0	160.6 160.7	1.4	12.7	300.6 307.7	546.1	236.3 240.1	105.7	172.6
2013	7.7	240.1	110.1	10.8	8.8	160.7	2.2	15.1	307.7	555.4	240.1	111.3	173.0
2014 2015	9.1 6.5	242.2 260.9	110.3 114.3	10.7 11.8	10.1 8.9	158.6 165.2	4.1 2.7	14.6 11.2	308.5 314.0	559.8 581.5	242.2 260.9	111.5 115.5	170.8 178.0
2016	2.3	254.7	93.0	10.7	9.4	168.2	0.8	13.9	296.0	553.0	254.7	94.7	181.1
2017	2.5	246.5	92.5	10.7 11.3	12.2	168.2 167.3	1.4	13.9 R 14.7 R 14.0	296.0 R 299.4 R 316.7 R 304.9 R 262.6	R 548.5 R 606.7	246.5	94.7 94.1	180.2
2018	4.0	286.0	105.8	12.3	14.2	168.3	2.1	R 14.0	R 316.7	R 606.7	286.0	107.3	181.2
2019	0.9	293.1 R 298.1	101.9	12.1	11.3	166.1 138.6	0.3	<sup>H</sup> 13.3	H 304.9	R 598.9 R 560.8	293.1 R 298.1	103.3	179.1 149.5
2020	0.1 2.9	R 305.2	92.7 R 105.1	11.5 11.7	6.0 8.8	138.6 151.0	0.4 0.6	R 13.3 R 13.4 R 9.8	R 286.4	R 594.5	R 298.1	94.2 R 105.8	149.5 163.0
2021 2022	0.0	307.2	103.1	10.2	10.1	162.0	3.3	14.5	303.3	610.5	307.2	104.2	174.9
	0.0	007.E				.52.0	0.0	0	000.0	0.0.0	002		

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Connecticut (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 1.4 R 0.6	12.8	NA	NA	NA	NA	12.8	0.0	NA	NA	R 14.3 R 14.2	R -11.4	0.0	R 496.3 R 554.3
1965 1970	0.0 39.6	H + +	13.5 15.8	NA NA	NA NA	NA NA	NA NA	13.5 15.8	0.0 0.0	NA NA	NA NA	H 17 A	R -17.1 R -52.1	0.0 0.0	H 673.5
1971 1972	84.2	R 1.3 R 1.8	16.1	NA	NA NA	NA NA	NA	16.1	0.0	NA	NA NA	R 17.4 R 19.0	R -84.0 R -81.5	0.0	R 660.8 R 695.7
1972	83.9 46.9	K 1 5	17.1 17.2	NA NA	NA NA	NA NA	NA NA	17.1 17.2	0.0 0.0	NA NA	NA NA	H 18 8	R -37.7 R -65.7	0.0 0.0	R 721 3
1974	89.0	R 1.5 R 1.7	18.0	NA	NA	NA	NA	18.0	0.0	NA	NA	n 10 5	R -65.7	0.0	H 690.4
1975 1976	89.6 136.2	H13	17.1 19.9	NA NA	NA NA	NA NA	NA NA	17.1 19.9	0.0 0.0	NA NA	NA NA	R 18.8 R 21.2	R -40.3 R -59.3 R -47.6	0.0 0.0	R 666.9 R 721.1
1977	141.9	H15	19.6	NA	NA	NA	NA	19.6	0.0	NA	NA	H 21 1	R -47.6	0.0	H 731 Q
1978 1979	151.7 138.2	R 1.2 R 1.6	22.7 24.6	NA NA	NA NA	NA NA	NA NA	22.7 24.6	0.0 0.0	NA NA	NA NA	R 23.9 R 26.2	R -57.2 R -31.0	0.0 0.0	R 748.6 R 735.5
1980	129.1	R 0 9	41.1	NA	NA	NA	NA	41.1	0.0	NA	NA	R 42 0	R -31.9 R -39.4 R -19.3	0.0	R 708.3 P 676.1
1981 1982	139.8 150.9	R 0.9 P 1.3	40.1 37.6	0.1	NA NA	NA NA	0.0 0.0	40.2 37.6	0.0 0.0	NA NA	NA NA	R 41.1 R 38.9	H -19.3	0.0 0.0	H 676.1 H 673.2
1982	126.4	H 1 2	44.2	(s) (s) (s) 0.1	NA NA	NA NA	0.0	44.2	0.0	NA NA	0.0	R 155	R -31.6 R -14.4 R -53.0 R -22.6	0.0	R 662 6
1984	155.0	H 1 3	37.1	(s)	NA	NA	0.0	37.2	0.0	0.0	0.0	н 38 5	R -53.0	0.0	H 691.6
1985 1986	135.1 197.5	R 0.9 R 1.3	37.5 31.6	0.1 (s)	NA NA	NA NA	0.0 0.0	37.6 31.7	0.0 0.0	0.0 0.0	0.0	R 38.5 R 32.9	R -87 5	0.1 1.5	R 702.3 R 717.7
1987	214.5	R 1.3 R 1.2	27.2	(s) 0.0	NA	NA	0.0	27.2	0.0	0.0	0.0 0.0	R 28 4	R -87.5 R -81.8	1.5 2.0	H 744.4
1988 1989	235.9 207.0	R 1.1 R 1.5	31.0 31.4	0.0 0.0	NA NA	NA NA	0.0 0.0	31.0 31.4	0.0 0.0	0.0 0.1	0.0 0.0	R 32.1 R 32.9	R -103.3 R -84.6	2.3 0.8	R 778.6 R 790.5
1990	209.3	H 1 9	28.7	0.0	NA	NA	0.0	28.7	0.0	0.1	0.0	R 30.7 R 32.0	R <sub>-54.5</sub>	0.1	H 772 5
1991	128.4	R 1.5 R 1.4	30.3	0.1	NA	NA	0.0	30.4	0.0	0.1	0.0	R 32.0 R 36.5	R -54.5 R 29.6 R 4.3	1.8	R 772.3 R 807.1
1992 1993	175.6 229.0	R 1 4	34.5 34.8	0.5 0.6	NA NA	NA NA	0.0 0.0	34.9 35.3	0.0 0.0	0.1 0.1	0.0 0.0	H 36 8	R -37.2	3.1 3.7	R 793 4
1994	210.7	H16	35.3	0.4	NA	NA	0.0	35.7	0.0	0.1	0.0 0.0	n 37 5	R -37.2 R -10.5	4.0	H 796 9
1995 1996	197.0 65.4	R 1.2 R 2.1	42.2 49.4	0.1 0.3	NA NA	NA NA	0.0 0.0	42.3 49.7	0.0 0.0	0.2 0.2	0.0 0.0	R 43.7 R 52.0	R -14.5 R 103.3	4.4 4.5	R 779.9 R 807.8
1997	-1.3	R 2.1 R 1.5	45.9	0.3	NA	NA	0.0	46.2	0.0	0.2	0.0	H 48.0	R 103.3 R 123.3	5.8	H 796.7
1998 1999	34.0 132.5	R 1.5 R 1.4	44.4 44.7	0.3 0.3	NA NA	NA NA	0.0 0.0	44.7 45.0	0.0	0.2	0.0 0.0	R 46.4	R 112.8	6.0 6.6	R 783.9
2000	170.7	H1Ω	44.9	0.3	NA NA	NA	0.0	45.3	(s) (s)	0.3 0.3	0.0	R 46.7 R 47.3	R 30.4 R11.0	5.4	R 829.7 R 841.1
2001	161.1	R 1.0	26.5	0.1	(s)	NA	0.0	26.7	(s)	0.3	0.0	R 27.9 R 26.3	R 26.6	2.6	H 826 5
2002 2003	155.8 167.6	R 1.1 R 1.9	24.5 25.1	0.3 1.7	(s) (s)	NA NA	0.0 0.0	24.8 26.8	(s) (s)	0.4 0.4	0.0 0.0	R 20 2	R 26.6 R 30.1 R 56.8	1.1 1.2	R 811.5
2004	172.5	H16	25.1	12.8	(s)	NA	0.0	37.9	(s)	0.5	0.0	н 39.9	H 26 U	3.4	R 888.1 R 903.0
2005 2006	162.4 173.1	R 1.6 R 1.9	20.4 19.6	3.4 10.0	(s) 0.1	NA NA	0.0 (s)	23.8 29.6	(s) (s)	R 0.5	0.0 0.0	R 26.0 R 32.1	R 22.2 R -6.1 R 27.3	4.0 4.0	R 871.7 R 816.3
2007	171.9	H 1 2	19.5	12.2	0.1	NA	(s)	31.8	(s)	R 0.6 R 0.7	0.0	R 33 8	R 27.3	5.1	R 838.6
2008	161.3	R 1.9	19.8	10.1	0.1	NA	(s)	30.0	(s)	R 0.8	0.0	R 32.8	R 14.4 R -11.4	6.8	R 770.2 R 762.9
2009 2010	174.2 175.1	R 1.7 R 1.3	23.4 25.3	12.1 13.1	0.1 0.1	NA NA	(s)	35.6 38.6	(s)	R 0.9 R 0.9	0.0 0.0	R 38.3 R 40.9	R -11.4	8.2 6.1	R 767.1
2011	166.7	H 1 Q	23.9	12.5	0.3	0.0	(s)	36.7	(s)	R <sub>1</sub> n	0.0	H 39 6	R -19.3 R -34.0	8.0	R 739.8
2012 2013	179.0 178.5	R 1.1 R 1.4	22.5 23.9	12.0 12.2	0.3 1.4	0.0 0.0	(s)	34.7 37.5	(s)	H 1.0 R 1.2	0.0 0.0	R 36.8 R 40.0	R -36.0 R -31.5	0.0 2.0	R 725.9 R 744.5
2014	165.7	R 1.5	25.6	12.2	1.3	0.0	(s)	39.1	(s)	R 1.0 R 1.2 R 1.4 R 1.7	0.0	H 42 0	R -21.3 R -55.1	2.3	R 748.5 R 754.3
2015	182.1	R 1.0 R 0.8	26.7	12.7	1.5	0.0	(s)	41.0	(s)	R 1.7	0.0	R 43.7 R 44.5	R -55.1	2.1	R 754.3
2016 2017	173.4 172.6	H11	26.4 23.2	12.9 12.9	2.2 2.3	0.0 0.0	(s) (s)	41.5 38.5	(s) (s)	R 2.1 R 2.5	R (s) R (s) R (s)	n 122	R -50.6 R -39.9	1.9 1.8	R 722.1 P 725.1
2018	176.5	H19	23.6	12.9	1.4	0.0	(s)	37.9	(s)	H 3.0	R (s)	H 42 Q	H -77 3	1.8	R 750.5
2019 2020	174.7 164.2	R 1.5 R 1.1	23.3 B 21.3	13.0 10.9	1.1 1.1	0.0 0.0	(s)	37.4 R 33.4	(s)	R 3.5 R 4.2	R (s) R (s)	R 42.4 R 38.8	R -86.2 R -103.4	0.0 0.0	R 729.8 R 660.3
2021	R 179.6	R 1.6	H 22.1	12.0	1.0	0.0	(s)	H 35.1	(s)	R 4.8	R (s)	R 41.6	H -122.8	0.0	R 692.9
2022	171.7	1.1	18.2	12.9	0.8	0.0	(s)	31.9	(s)	6.0	(s)	39.0	-113.6	0.0	707.6

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Connecticut

						Petroleum					Bion	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	1,074	27	23,290	1,092	1,129	19,349	13,025	3,678	61,562	26					7,386			_
1970	185	60	23,099	1,854	2,897	28,638	15,064	3,482	75,034	3					16,139			-
1980	16	73	22,188	1,501	1,921	30,205	7,906	2,097	65,817	6					21,201			-
1990 2000	13 4	93 125	23,066 23,436	1,592 2,130	2,344 2,599	31,140 34,933	2,533 619	2,742 2,171	63,416 65,888	8					27,187 29,952			_
2005	6	104	26,417	3,973	2,599	38,601	1,484	3,651	76,587	0					33,095			_
2006	4	97	24,245	3,698	2,249	37,710	911	3,159	71,972	0					31,677			_
2007	3	107	24,209	3,364	2,056	37,906	598	2,004	70,137	0					34,129			_
2008	0	107	22,887	2,371	1,908	36,236	271	889	64,562	0					30,957			-
2009	0	114	21,917	2,627	1,408	36,241	288	2,680	65,160	0					29,716			-
2010	0	114	20,884	2,461	1,938	35,726	174	2,735	63,918	0					30,392			-
2011	0	122	19,914	2,674	1,995	34,768	89	2,462	61,902	0					29,859			-
2012 2013	0	115 128	18,287 19,184	2,310 2,813	2,123 1,548	34,100 34,183	42 14	1,988 2,357	58,850 60,098	0					29,492 29,825			_
2013	0	136	19,198	2,790	1,786	33,755	23	2,292	59,844	0					29,354			_
2015	0	134	19,823	3,064	1,571	35,189	36	1,757	61,440	0					29,476			_
2016	0	125	16,390	2,790	1,657	35,817	37	R 2,174	R 58,865	ō					28,931			_
2017	0	131	16,248	2,934	2,152	35,671	46	R 2,282	R 59,333	0					28,136			-
2018	0	142	18,402	3,192	2,503	35,851	28	R 2,164	R 62,141	0					28,834			-
2019	0	141	17,907	3,142	1,984	35,446	24	R 2,060	R 60,563	0					27,900			-
2020	0	R 132 R 133	16,327	2,991	1,052	29,584	11	R 2,079	R 52,045 R 56,749	0					27,114			-
2021 2022	0	133	R 18,304 17,995	3,045 2,656	1,549 1,781	32,269 34,650	33 34	R 1,549 2,256	59,372	0					27,738 27,767			_
2022	0	104	17,555	2,000	1,701	34,030		2,230							21,101			
									Trillion									
1960	28.0	27.6	135.7	4.2	6.4	101.6	81.9	22.0	351.7	R 0.1	12.8	NA	NA	NA	25.2	R 445.5	R 50.8	R 496.
1970	4.4	61.4	134.5	7.0	16.4	150.4	94.7	20.9	424.0	_ (s)	15.8		NA	NA	55.1	560.7	R 112.8	R 673.
1980	0.4	74.2	129.2	5.5	10.9	158.7	49.7	12.6	366.6	R (s)	41.1	NA	NA	NA	72.3	554.4	R 153.9	R 708.
1990	0.3	95.9	134.4	5.9	13.3	163.6	15.9	17.1	350.2	R (s)	12.8		0.0	0.1	92.8	552.0	R 220.5	R 772.
2000 2005	0.1 0.1	128.9 106.8	136.4 153.7	8.0 14.4	14.7 14.0	181.7 200.4	3.9 9.3	13.1 22.7	357.7 414.5	0.0	13.9 6.8		(s) (s)	0.3 R 0.5	102.2 112.9	603.1 641.6	R 238.0 R 230.1	<sup>R</sup> 841. <sup>R</sup> 871.
2005	0.1	99.2	140.7	13.3	12.8	195.5	9.3 5.7	19.6	387.6	0.0	6.0		(s)	R 0.6	108.1	601.6	R 214.7	R 816.
2007	0.1	109.1	140.7	12.2	11.7	194.9	3.8	12.4	374.9	0.0	6.4		(s)	R 0.7	116.4	607.9	R 230.7	R 838.
2008	0.0	109.6	132.3	9.1	10.8	185.0	1.7	5.2	344.1	0.0	6.6		(s)	R 0.8	105.6	R 566.9	R 203.3	R 770.
2009	0.0	116.9	126.6	10.0	8.0	184.5	1.8	17.0	347.9	0.0	9.9	(s)	(s)	R 0.9	101.4	R 576.9	R 186.2	R 763.
2010	0.0	117.2	120.6	9.5	11.0	181.0	1.1	17.4	340.6	0.0	12.1	(s)	(s)	R 0.9	103.7	R 574.5	R 192.8	R 767.
2011	0.0	125.5	114.9	10.3	11.3	176.0	0.6	15.7	328.7	0.0	11.3		(s)	R 1.0	101.9	R 568.4	R 171.7	R 740.
2012	0.0	118.7	105.5	8.9	12.0	172.6	0.3	12.7	311.9	0.0	10.2		(s)	R 1.0 R 1.2	100.6	R 542.5 R 563.9	<sup>R</sup> 183.8 <sup>R</sup> 180.4	R 726. R 744.
2013 2014	0.0 0.0	130.1 139.3	110.6 110.6	10.8 10.7	8.8 10.1	173.0 170.8	0.1 0.1	15.1 14.6	318.3 317.0	0.0	12.6 12.5		(s) (s)	<sup>11</sup> 1.2 R 1.4	101.8 100.2	R 570.4	R 178.1	R 748
2014	0.0	137.7	114.2	11.8	8.9	170.6	0.1	11.2	324.2	0.0	13.1	(s)	(s)	R 1.6	100.2	R 577.3	R 176.8	R 754.
2016	0.0	128.4	94.4	10.7	9.4	181.1	0.2	13.9	309.7	0.0	10.5		(s)	R 2.0	98.7	R 549.4	R 172.2	R 721.
2017	0.0	134.9	93.5	11.3	12.2	180.2	0.3	R 14.7	R 312.3	0.0	10.2		(s)	R 2.4	96.0	R 555.7	R 168.6	R 724
2018	0.0	146.1	106.0	12.3	14.2	181.2	0.2	R 14.0	R 327.8	0.0	10.9		(s)	R <sub>27</sub>	98.4	R 585.9	R 164.7	R 750
2019	0.0	145.4	103.1	12.1	11.3	179.1	0.1	R 13.3	R 319.0	0.0	11.3	(s)	(s)	R 3.0	95.2	R 574.0	R 156.2	R 730
2020	0.0	R 135.4	94.0	11.5	6.0	149.5	0.1	R 13.4	R 274.4	0.0	R 8.6		(s)	R 3.5	92.5	R 514.6	R 146.1	R 660.
2021	0.0	R 136.9	R 105.5	11.7	8.8	163.0	0.2	R 9.8	R 298.9	0.0	R 9.6		(s)	R 3.9		R 544.1	R 149.0	R 693.
2022	0.0	137.5	103.7	10.2	10.1	174.9	0.2	14.5	313.7	0.0	9.1	(s)	(s)	4.6	94.7	559.7	148.2	707.9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

<sup>89.</sup>Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Connecticut

Thousand   Thousand   Thousand barrels   Thousand					Petro	oleum		Biomass						
Var   Short Long   Cubic feet   Thousand barrels   Wood   Geothermal   Solar e.f.   Kilowatthours   End use e.f.		Coal <sup>a</sup>			HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
1965	Year				Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>		End use e,h	energy losses	Total <sup>e,h</sup>
1965	1960	114	16	15,480	485	1,507	17,472				2,724			
1975   7   32   12.950   596   291   13.838       7.449     1985   8   33   10.896   496   605   192   14.937       8.638     1985   8   33   10.896   496   605   192   14.937       10.376	1965	46	22	13,649	538	1,101	15,288				3,812			
1980   3   32   13,468   462   233   14,163       6,218       1985   8   8   37   10,898   4996   600   11,997       6,838       1995   3   41   12,528   679   122   13,329       10,760       1995   3   41   41,163   1,096   199   15,388       11,645       2000   (s)   45   14,196   1,287   326   16,529       13,803       2005   (s)   45   14,916   1,287   326   16,529       13,803       2006   (s)   39   12,895   1,069   232   14,196       13,295       2007   (s)   43   13,003   1,177   129   14,342         13,272       2008   2009   20   44   2,243   1,636   46   44,105       12,273       2010   0   43   11,396   1,516   43   12,995       13,065       2011   0   45   10,260   1,623   31   1,194       12,788       2012   0   41   9,462   1,521   14   10,997       12,788       2013   0   47   9,894   1,852   17   11,888       12,893       2015   0   51   10,497   1,842   10   12,449       12,893       2016   0   48   7,825   2,344   8   10,178       12,390       2017   0   48   7,825   2,344   8   10,178       13,061       2018   0   53   9,485   2,2008   8   1,1810       12,494     -	1970	24	31	14,239	623	526	15,388				6,396			
1990 2 37 13,576 665 196 14,437 10,376 1995 3 41 12,528 679 122 13,329 10,760 2000 (s) 42 14,123 1,038 199 15,338 11,645 2007 (s) 43 13,037 1,176 62 22 14,342 13,332 2007 (s) 43 13,037 1,176 29 14,342 13,332 2008 0 43 12,618 14,91 49 14,199 12,578 2009 0 44 12,423 1,636 46 14,105 12,578 2010 0 43 13,395 15,16 43 12,955 12,578 2011 0 45 10,260 1,623 31 11,914 12,919 2011 0 45 10,260 1,623 31 11,914 12,919 2012 0 41 9,894 1,813 12 11,914 12,1258 2013 0 47 9,894 1,813 12 17 11,893 13,135 2016 0 46 7,870 1,820 13 9,703 12,273 2017 0 48 7,825 2,344 8 10,178 12,267 2018 0 53 9,495 2,396 8 11,810 12,267 2019 0 48 7,825 2,344 8 10,178 12,267 2019 0 52 8 16,6 90.2 1,9 8.5 100.6 5.1 NA NA 9.3 1344 2020 0 51 9,188 1,777 8 10,577 8 10,573 12,302 2020 0 1,337 1,176 1,9 1,9 1,9 1,9 1,1 1,1 1,4 1,9 1,9 1,1 1,1 1,4 1,9 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1	19/5	/	32	12,950	596	291	13,838				7,449			
1990   2   37   13,576   665   196   14,437       10,376       1995   3   41   12,528   679   122   13,329       10,760       2000   (s)   42   14,123   1,086   199   15,338       11,645       2007   (s)   43   13,937   1,176   22   14,342       13,803       2007   (s)   43   13,037   1,176   29   14,342       13,372       2008   0   44   12,423   1,636   46   14,105       12,570       2009   0   44   12,423   1,636   46   14,105       12,578       2010   0   43   13,396   15,166   43   12,955       12,578       2011   0   45   10,260   1,623   31   11,914       12,738       2012   0   41   9,462   1,521   14   10,997       12,758       2013   0   47   8,194   1,813   12   11,189       13,135       2014   0   45   10,260   1,623   31   11,914         12,758       2015   0   46   7,870   1,820   13   9,703       12,873       2016   0   46   7,870   1,820   13   9,703       12,677       2018   0   53   9,495   2,398   8   11,810       12,982       2019   0   49   6,065   2,044   11   11,499       12,982       2019   0   49   6,065   2,044   11   11,499       12,982       2019   0   51   51,88   1,777   8   10,973       13,061       1960   2.8   16.6   90.2   1.9   8.5   100.6   5.1   NA   NA   9.3   1344       1960   2.8   16.6   90.2   1.9   8.5   100.6   5.1   NA   NA   9.3   1344       1960   2.8   16.6   90.2   1.9   8.5   100.6   5.1   NA   NA   9.3   1344       1960   1.1   22,7   78.5   2.1   6.2   87.8   4.8   NA   NA   NA   2.0   144       1960   1.1   22,7   78.5   2.1   6.2   87.8   4.8   NA   NA   NA   2.0   144       1980   0.1   36.7   79.1   2.6   1.1   88.7   77.7   (8)   0.3   39.7   177.7     1980   0.1   38.7   79.1   2.6   1.1   87.3   77.7   (8)   0.3   39.7   177.7     1980   0.1   38.7   79.1   2.6   1.1   87.3   77.7   (9)   0.3   39.7   177.7     1990	1980		32 33	13,468	462 496	233 605	14,163				8,218 8,638			
2000 (s) 42 14,123 1,036 199 15,358 11,645 11,645 2005 (s) 45 14,916 1,287 326 16,529 13,803 12,963 12,963 12,963 12,963 12,963 12,963 12,963 13,803 12,963 13,803 12,963 13,803 12,963 13,803 12,963 13,803 12,963 13,803 13,968 13	1990	2	37	13.576	665	196	14.437				10.376			
2000 (s) 42 14,123 1,036 199 15,358 11,645 11,645 2005 (s) 45 14,916 1,287 326 16,529 13,803 12,963 12,963 12,963 12,963 12,963 12,963 12,963 13,803 12,963 13,803 12,963 13,803 12,963 13,803 12,963 13,803 12,963 13,803 13,968 13	1995	3	41	12,528	679	122	13,329				10,760			
2007 (s) 43 13,037 1,176 129 14,342 13,372 12,008 0 43 12,618 1,491 49 14,159 12,578 12,009 0 44 12,423 1,636 46 14,105 12,578 12010 0 43 11,396 1,516 43 12,955 13,065 12011 0 45 10,260 1,623 31 11,914 12,1919 12,1919 12,1919 0 44 1 9,462 1,521 14 10,977 12,1919 12,1919 0 41 1 9,462 1,521 14 10,977 12,1919 0 12,1919 0 12,1919 0 12,1919 0 13,191 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000	(s)	42	14 123	1.036	199	15.358				11.645			
2007 (s) 43 13,037 1,176 129 14,342 13,372 12,008 0 43 12,618 1,491 49 14,159 12,578 12,009 0 44 12,423 1,636 46 14,105 12,578 12010 0 43 11,396 1,516 43 12,955 13,065 12011 0 45 10,260 1,623 31 11,914 12,1919 12,1919 12,1919 0 44 1 9,462 1,521 14 10,977 12,1919 12,1919 0 41 1 9,462 1,521 14 10,977 12,1919 0 12,1919 0 12,1919 0 12,1919 0 13,191 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2005	(s)	45	14,916	1,287	326	16,529				13,803			
2009   0	2006	(s)	39	12,895		232	14,196				12,963			
2009   0		(S)	43	13,037		129					13,372			
2011 0 45 10,260 1,623 31 11,914 12,919 2012 0 41 9,462 1,521 14 10,997 12,158 2013 0 47 9,994 1,851 12 11,858 13,135 2014 0 51 10,071 1,812 17 11,899 12,178 2015 0 51 10,497 1,942 10 12,449 12,893 2016 0 46 7,870 1,820 13 9,703 12,893 2017 0 48 7,825 2,344 8 10,178 12,880 2018 0 53 9,495 2,308 8 11,810 12,360 2019 0 55 9,495 2,308 8 11,810 12,360 2019 0 52 9,238 2,190 11 10,120 12,494 2020 0 49 8,065 2,044 11 10,120 12,494 2021 0 50 69,261 2,037 9 811,308 13,191 2022 0 51 9,188 1,777 8 10,973 13,191 2022 0 51 9,188 1,777 8 10,973 13,191 2022 0 51 9,188 1,777 8 10,973 13,191 2024 10 52 8,233 754 2,33 1,7 79,4 6,6 NA NA 13,0 129,4 1965 1,1 22,7 79,5 2,1 6,2 87,8 48 NA NA 13,0 129,4 1965 1,1 22,7 79,5 1,8 1,8 1,3 81,5 22,1 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,5		0	43	12,010		49 46	14,109				12,730			
2011 0 45 10,260 1,623 31 11,914 12,919 2012 0 41 9,462 1,521 14 10,997 12,158 2013 0 47 9,994 1,851 12 11,858 13,135 2014 0 51 10,071 1,812 17 11,899 12,178 2015 0 51 10,497 1,942 10 12,449 12,893 2016 0 46 7,870 1,820 13 9,703 12,893 2017 0 48 7,825 2,344 8 10,178 12,880 2018 0 53 9,495 2,308 8 11,810 12,360 2019 0 55 9,495 2,308 8 11,810 12,360 2019 0 52 9,238 2,190 11 10,120 12,494 2020 0 49 8,065 2,044 11 10,120 12,494 2021 0 50 69,261 2,037 9 811,308 13,191 2022 0 51 9,188 1,777 8 10,973 13,191 2022 0 51 9,188 1,777 8 10,973 13,191 2022 0 51 9,188 1,777 8 10,973 13,191 2024 10 52 8,233 754 2,33 1,7 79,4 6,6 NA NA 13,0 129,4 1965 1,1 22,7 79,5 2,1 6,2 87,8 48 NA NA 13,0 129,4 1965 1,1 22,7 79,5 1,8 1,8 1,3 81,5 22,1 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1975 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,4 6,6 NA NA 2,18 145,5 1976 0,1 32,3 75,4 2,3 1,7 79,5	2010		43	11.396	1,516	43	12,955				13.065			
2012	2011	Ō	45	10,260	1,623	31	11,914				12,919			
2014   0	2012			9,462	1,521		10,997				12,758			
2015   0   51   10,497   1,942   10   12,449         12,893     2016   0   46   7,870   1,820   13   9,703         12,2677     2017   0   48   7,825   2,344   8   10,178         12,380     2018   0   53   9,495   2,308   8   11,810         12,380     2019   0   52   9,238   2,190   11   11,439         12,494     2020   0   49   8,065   2,044   11   10,120         12,982     2021   0   50   9,261   2,037   9   91,1308         13,092     2022   0   51   9,188   1,777   8   10,973         13,191         13,191         13		0									13,135			
2016	2014	0	51	10,071	1,812	17	11,899				12,778			
2017   0		U					12,449				12,893			
2018 0 53 9,495 2,308 8 11,810 12,494 2019 0 52 9,238 2,190 11 11,439 12,494 2020 0 49 8,065 2,044 11 10,120 12,494 2021 0 50 8,9261 2,037 9 8,11,308 13,092 2022 0 51 9,188 1,777 8 10,973 13,191  Trillion Btu   1960 2.8 16.6 90.2 1.9 8.5 100.6 5.1 NA NA 9,3 134.4 1965 1.1 22.7 79.5 2.1 6.2 87.8 4.8 NA NA NA 13.0 129.4 1970 0.6 31.7 82.9 2.4 3.0 88.3 6.2 NA NA 21.8 148.5 1975 0.1 32.3 75.4 2.3 1.7 79.4 6.6 NA NA 22.8 148.5 1980 0.1 32.7 78.5 1.8 1.3 81.5 22.1 NA NA 22.4 143.9 1980 0.1 32.7 78.5 1.8 1.3 81.5 22.1 NA NA 22.0 164.4 1990 0.1 38.7 79.1 2.6 1.1 82.7 9.7 0.0 0.1 32.7 78.5 1.8 1.3 81.5 22.1 NA NA 22.5 147.6 1990 0.1 38.7 79.1 2.6 1.1 82.7 9.7 0.0 0.1 33.7 6.9 1.9 3.4 68.8 15.5 NA NA 22.5 166.6 1990 0.1 38.7 79.1 2.6 1.1 82.7 9.7 0.0 0.1 35.4 166.6 1990 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 2000 (s) 42.7 82.2 4.0 1.1 87.3 7.7 (s) 0.3 39.7 17.7 199.0 2006 (s) 42.7 82.2 4.0 1.1 8.9 3.6 2.5 (s) 0.6 44.2 187.4 2007 (s) 44.4 75.4 4.5 0.7 80.7 2.4 (s) 0.7 45.6 81.7 2008 0.0 43.8 72.9 5.7 0.3 78.9 2.7 (s) 0.8 43.4 169.7 2009 0.0 43.8 72.9 5.7 0.3 78.9 2.7 (s) 0.8 43.4 169.7 2009 0.0 43.8 72.9 5.7 0.3 78.9 2.7 (s) 0.8 43.4 169.7 2009 0.0 43.8 72.9 5.7 0.3 78.9 2.7 (s) 0.8 43.4 169.7 2009 0.0 43.8 72.9 5.7 0.3 78.9 2.7 (s) 0.8 43.4 169.7 2009 0.0 43.8 65.8 5.8 0.2 71.9 6.3 (s) 0.9 944.6 173.0	2010	0	40 48	7,670	2 344		10 178				12,077			
2020 0 49 8,065 2,044 11 10,120 12,982 2021 0 50 89,261 2,037 9 811,308 13,092 2022 0 51 9,188 1,777 8 10,973 13,191   **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  1960 2.8 16.6 90.2 1.9 8.5 100.6 5.1 NA NA NA 9.3 134.4 1965 1.1 22.7 79.5 2.1 6.2 87.8 4.8 NA NA NA 13.0 129.4 1970 0.6 31.7 82.9 2.4 3.0 88.3 6.2 NA NA 21.8 148.5 1975 0.1 32.3 75.4 2.3 1.7 79.4 6.6 NA NA 21.8 148.5 1980 0.1 32.7 78.5 1.8 1.3 81.5 22.1 NA NA 28.0 164.4 1985 0.2 33.8 63.5 1.9 3.4 68.8 15.5 NA NA 28.0 164.4 1985 0.2 33.8 63.5 1.9 3.4 68.8 15.5 NA NA 29.5 147.6 1995 0.1 38.7 79.1 2.6 1.1 82.7 9.7 0.0 0.1 35.4 166.6 1995 0.1 32.7 78.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 5.7 80.8 4.9 1.8 93.6 2.5 (s) 0.6 44.2 167.4 189.3 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	2018	0	53	9,495	2.308		11.810				13.061			
2020 0 49 8,065 2,044 11 10,120 12,982 2021 0 50 89,261 2,037 9 811,308 13,092 2022 0 51 9,188 1,777 8 10,973 13,191   **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  **Trillion Btu**  1960 2.8 16.6 90.2 1.9 8.5 100.6 5.1 NA NA NA 9.3 134.4 1965 1.1 22.7 79.5 2.1 6.2 87.8 4.8 NA NA NA 13.0 129.4 1970 0.6 31.7 82.9 2.4 3.0 88.3 6.2 NA NA 21.8 148.5 1975 0.1 32.3 75.4 2.3 1.7 79.4 6.6 NA NA 21.8 148.5 1980 0.1 32.7 78.5 1.8 1.3 81.5 22.1 NA NA 28.0 164.4 1985 0.2 33.8 63.5 1.9 3.4 68.8 15.5 NA NA 28.0 164.4 1985 0.2 33.8 63.5 1.9 3.4 68.8 15.5 NA NA 29.5 147.6 1995 0.1 38.7 79.1 2.6 1.1 82.7 9.7 0.0 0.1 35.4 166.6 1995 0.1 32.7 78.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 2.6 0.7 76.2 10.5 0.0 0.2 36.7 165.6 1995 0.1 42.0 72.9 5.7 80.8 4.9 1.8 93.6 2.5 (s) 0.6 44.2 167.4 189.3 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	2019	Ö	52	9.238	2,190	11	11,439				12.494			
Trillion Btu   Tril	2020	0	49	8,065	2,044		10,120				12,982			
1960   2.8   16.6   90.2   1.9   8.5   100.6   5.1   NA	2021		50	H 9,261	2,037		H 11,308				13,092			
1960	2022	0	51	9,188	1,///	8	10,973				13,191			
1965         1.1         22.7         79.5         2.1         6.2         87.8         4.8         NA         NA         13.0         129.4           1970         0.6         31.7         82.9         2.4         3.0         88.3         6.2         NA         NA         21.8         148.5           1975         0.1         32.3         75.4         2.3         1.7         79.4         6.6         NA         NA         25.4         143.9           1980         0.1         32.7         78.5         1.8         1.3         81.5         22.1         NA         NA         28.0         164.4           1985         0.2         33.8         63.5         1.9         3.4         68.8         15.5         NA         NA         29.5         147.6           1990         0.1         38.7         79.1         2.6         1.1         82.7         9.7         0.0         0.1         35.4         166.6           1995         0.1         42.0         72.9         2.6         0.7         76.2         10.5         0.0         0.2         36.7         165.6           2000         (s)         42.7         82.2         <								Trillion Btu						
1980       0.1       32.7       78.5       1.8       1.3       81.5       22.1       NA       NA       28.0       164.4         1985       0.2       33.8       63.5       1.9       3.4       68.8       15.5       NA       NA       29.5       147.6         1990       0.1       38.7       79.1       2.6       1.1       82.7       9.7       0.0       0.1       35.4       166.6         1995       0.1       42.0       72.9       2.6       0.7       76.2       10.5       0.0       0.2       36.7       165.6         2000       (s)       42.7       82.2       4.0       1.1       87.3       7.7       (s)       0.3       39.7       177.7         2005       (s)       45.7       86.8       4.9       1.8       93.6       2.5       (s)       0.3       39.7       177.7         2006       (s)       40.1       74.8       4.1       1.3       80.3       2.2       (s)       0.6       44.2       167.4         2007       (s)       44.4       75.4       4.5       0.7       80.7       2.4       (s)       0.7       45.6       6173.8	1960	2.8	16.6	90.2	1.9	8.5	100.6	5.1	NA		9.3	134.4	R 18.7	R 153.1 R 155.0 R 193.2 R 195.8
1980         0.1         32.7         78.5         1.8         1.3         81.5         22.1         NA         NA         28.0         164.4           1985         0.2         33.8         63.5         1.9         3.4         68.8         15.5         NA         NA         29.5         147.6           1990         0.1         38.7         79.1         2.6         1.1         82.7         9.7         0.0         0.1         35.4         166.6           1995         0.1         42.0         72.9         2.6         0.7         76.2         10.5         0.0         0.2         36.7         165.6           2000         (s)         42.7         82.2         4.0         1.1         87.3         7.7         (s)         0.3         39.7         177.7           2005         (s)         45.7         86.8         4.9         1.8         93.6         2.5         (s)         9.5         47.1         189.3           2006         (s)         40.1         74.8         4.1         1.3         80.3         2.2         (s)         0.6         44.2         167.4           2007         (s)         44.4         75.4	1965		22.7	79.5	2.1	6.2	87.8	4.8	NA		13.0	129.4	R 25.6 R 44.7	H 155.0
1980         0.1         32.7         78.5         1.8         1.3         81.5         22.1         NA         NA         28.0         164.4           1985         0.2         33.8         63.5         1.9         3.4         68.8         15.5         NA         NA         29.5         147.6           1990         0.1         38.7         79.1         2.6         1.1         82.7         9.7         0.0         0.1         35.4         166.6           1995         0.1         42.0         72.9         2.6         0.7         76.2         10.5         0.0         0.2         36.7         165.6           2000         (s)         42.7         82.2         4.0         1.1         87.3         7.7         (s)         0.3         39.7         177.7           2005         (s)         45.7         86.8         4.9         1.8         93.6         2.5         (s)         9.5         47.1         189.3           2006         (s)         40.1         74.8         4.1         1.3         80.3         2.2         (s)         0.6         44.2         167.4           2007         (s)         44.4         75.4	1970		31.7	82.9	2.4						21.8	148.5	n 44.7	n 193.2
1985         0.2         33.8         63.5         1.9         3.4         68.8         15.5         NA         NA         29.5         147.6           1990         0.1         38.7         79.1         2.6         1.1         82.7         9.7         0.0         0.1         35.4         166.6           1995         0.1         42.0         72.9         2.6         0.7         76.2         10.5         0.0         0.2         36.7         165.6           2000         (s)         42.7         82.2         4.0         1.1         87.3         7.7         (s)         0.3         39.7         177.7           2005         (s)         45.7         86.8         4.9         1.8         93.6         2.5         (s)         0.3         39.7         177.7           2005         (s)         45.7         86.8         4.9         1.8         93.6         2.5         (s)         0.5         47.1         189.3           2006         (s)         40.1         74.8         4.1         1.3         80.3         2.2         (s)         0.6         44.2         167.4           2007         (s)         44.4         75.4	1975		32.3 32.7	75.4 78.5			79.4 81.5	0.0 22.1	NΑ		25.4 28.0	143.9	R 51.9 R 59.6	195.6 R 224.1
1990         0.1         38.7         79.1         2.6         1.1         82.7         9.7         0.0         0.1         35.4         166.6           1995         0.1         42.0         72.9         2.6         0.7         76.2         10.5         0.0         0.2         36.7         165.6           2000         (s)         42.7         82.2         4.0         1.1         87.3         7.7         (s)         0.3         39.7         177.7           2005         (s)         45.7         86.8         4.9         1.8         93.6         2.5         (s)         80.5         47.1         189.3           2006         (s)         40.1         74.8         4.1         1.3         80.3         2.2         (s)         0.6         44.2         167.4           2007         (s)         44.4         75.4         4.5         0.7         80.7         2.4         (s)         0.7         45.6         8173.8           2008         0.0         43.8         72.9         5.7         0.3         78.9         2.7         (s)         0.8         43.4         169.7           2009         0.0         45.0         71.8	1985		33.8	63.5			68.8	15.5			29.5		H 50 0	R 224.1 R 207.5
1995         0.1         42.0         72.9         2.6         0.7         76.2         10.5         0.0         0.2         36.7         165.6           2000         (s)         42.7         82.2         4.0         1.1         87.3         7.7         (s)         0.3         39.7         177.7           2005         (s)         45.7         86.8         4.9         1.8         93.6         2.5         (s)         0.5         47.1         189.3           2006         (s)         40.1         74.8         4.1         1.3         80.3         2.2         (s)         0.6         44.2         167.4           2007         (s)         44.4         75.4         4.5         0.7         80.7         2.4         (s)         0.7         45.6         8173.8           2008         0.0         43.8         72.9         5.7         0.3         78.9         2.7         (s)         0.8         43.4         169.7           2009         0.0         45.0         71.8         6.3         0.3         78.3         5.9         (s)         8.8         42.9         173.0           2010         0.0         43.8         65.8	1990		38.7	79.1	2.6		82.7	9.7			35.4		R 84.2 R 86.9	R 250.7 R 252.5
2005 (s) 45.7 86.8 4.9 1.8 93.6 2.5 (s) \$\bar{1}0.5\$ 47.1 189.3 2006 (s) 40.1 74.8 4.1 1.3 80.3 2.2 (s) 0.6 44.2 167.4 2007 (s) 44.4 75.4 4.5 0.7 80.7 2.4 (s) 0.7 45.6 \$\bar{1}73.8\$ 2008 0.0 43.8 72.9 5.7 0.3 78.9 2.7 (s) 0.8 43.4 169.7 2009 0.0 45.0 71.8 6.3 0.3 78.3 5.9 (s) \$\bar{1}0.8\$ 42.9 173.0 2010 0.0 43.8 65.8 5.8 0.2 71.9 6.3 (s) 0.9 44.6 167.5	1995	0.1	42.0	72.9	2.6	0.7	76.2	10.5	0.0	0.2	36.7	165.6	R 86.9	R 252.5
2006     (s)     40.1     74.8     4.1     1.3     80.3     2.2     (s)     0.6     44.2     167.4       2007     (s)     44.4     75.4     4.5     0.7     80.7     2.4     (s)     0.7     45.6     8173.8       2008     0.0     43.8     72.9     5.7     0.3     78.9     2.7     (s)     0.8     43.4     169.7       2009     0.0     45.0     71.8     6.3     0.3     78.3     5.9     (s)     8.0     42.9     173.0       2010     0.0     43.8     65.8     5.8     0.2     71.9     6.3     (s)     0.9     44.6     _ 167.5	2000		42.7				87.3	7.7	(s)	0.3			R 92.5 R 96.0 R 87.9 R 90.4 R 83.6	R 270.2 R 285.3 R 255.3 R 264.3 R 253.3 R 251.8 R 250.4 R 237.0 R 231.9 R 244.5 R 246.7
2008	2005			86.8		1.8	93.6	2.5	(s)	H 0.5		189.3	H 96.0	H 285.3
2008	2006		40.1	74.8 75.4		1.3	80.3	2.2	(S)	0.6	44.2	167.4 B 172.0	R 00.4	n 255.3 B 264.2
2009 0.0 45.0 71.8 6.3 0.3 78.3 5.9 (s) R0.8 42.9 173.0 2010 0.0 43.8 65.8 5.8 0.2 71.9 6.3 (s) 0.9 44.6 167.5 2011 0.0 46.0 59.2 6.2 0.2 65.6 6.1 (s) R0.9 44.1 R162.7 2012 0.0 42.3 54.6 5.8 0.1 60.5 5.1 (s) R0.9 43.5 R152.4 2013 0.0 47.7 57.6 7.1 0.1 64.8 6.7 (s) R1.0 44.8 R165.0 2014 0.0 52.6 58.0 7.0 0.1 65.1 6.8 (s) R1.1 43.6 R169.2 2015 0.0 52.6 58.0 7.0 0.1 68.0 7.6 (c) R1.2 44.0 R173.2	2007			73.4 72.0		0.7	78 Q	2.4	(5)	0.8		169.7	R 83 6	R 253 3
2010 0.0 43.8 65.8 5.8 0.2 71.9 6.3 (s) 0.9 44.6 167.5 2011 0.0 46.0 59.2 6.2 0.2 65.6 6.1 (s) R0.9 44.1 R162.7 2012 0.0 42.3 54.6 5.8 0.1 60.5 5.1 (s) R0.9 43.5 R152.4 2013 0.0 47.7 57.6 7.1 0.1 64.8 6.7 (s) R1.0 44.8 R165.0 2014 0.0 52.6 58.0 7.0 0.1 65.1 6.8 (s) R1.1 43.6 R169.2 2015 0.0 52.6 58.0 7.0 0.1 68.0 7.6 (c) R1.2 44.0 R173.2	2009						78.3		(s)	R 0.8	42.9		R 78 8	R 251 8
2011 0.0 46.0 59.2 6.2 0.2 65.6 6.1 (s) R0.9 44.1 R162.7 2012 0.0 42.3 54.6 5.8 0.1 60.5 5.1 (s) R0.9 43.5 R152.4 2013 0.0 47.7 57.6 7.1 0.1 64.8 6.7 (s) R1.0 44.8 R165.0 2014 0.0 52.6 58.0 7.0 0.1 65.1 6.8 (s) R1.1 43.6 R169.2 2015 0.0 52.3 60.5 7.5 0.1 68.0 7.6 (c) R1.2 44.0 R173.2	2010	0.0	43.8	65.8		0.2	71.9	6.3	(s)	nα	44.6	167.5	R 82.9	R 250.4
2012 0.0 42.3 54.6 5.8 0.1 60.5 5.1 (s) H0.9 43.5 H152.4 2013 0.0 47.7 57.6 7.1 0.1 64.8 6.7 (s) R1.0 44.8 R165.0 2014 0.0 52.6 58.0 7.0 0.1 65.1 6.8 (s) R1.1 43.6 R169.2 2015 0.0 52.3 60.5 7.5 0.1 68.0 7.6 (c) R1.2 44.0 R173.2	2011	0.0	46.0	59.2	6.2	0.2	65.6	6.1	(s)	R 0.9	44.1	R 162.7	R 78.8 R 82.9 R 74.3 R 79.5 R 79.5 R 77.5	R 237.0
2013 0.0 47.7 57.6 7.1 0.1 64.8 6.7 (s) 11.0 44.8 1165.0 2014 0.0 52.6 58.0 7.0 0.1 65.1 6.8 (s) 11.1 43.6 1169.2 2015 0.0 523 60.5 7.5 0.1 68.0 7.6 (c) 11.2 44.0 1173.2							60.5		(s)	H 0.9	43.5	H 152.4	H 79.5	H 231.9
2014	2013		47.7	57.6				6.7	(s)	n 1.0		n 165.0	n 79.5	244.5
	2014 2015		52.6 52.2	58.0	7.0		65.1	6.8	(S)	'' 1.1 R 1 2	43.6	" 169.2 B 170 0	'' //.5 R 77.5	11246./ R 250.5
2016 0.0 47.3 45.3 7.0 0.1 52.4 5.3 (s) 81.5 43.3 8149.8			5∠.3 47.2	00.5 45.2	7.5			7.0 5.3	(8)	1.3 R <sub>1.5</sub>	44.U 42.2	R 1/0.2	77.3 R 75.5	R 225 2
2015 0.0 52.3 60.5 7.5 0.1 68.0 7.6 (s) R1.3 44.0 R173.2 2016 0.0 47.3 45.3 7.0 0.1 52.4 5.3 (s) R1.5 43.3 R149.8 2017 0.0 49.8 45.0 9.0 (s) 54.1 5.6 (s) R1.8 42.2 R153.5	2017	0.0	49.8	45.0			54.1	5.6	(s)	R 1.8	42.2	R 153.5	R 77.3 R 75.5 R 74.2	R 250.5 R 225.3 R 227.7
2017 0.0 49.8 45.0 9.0 (s) 54.1 5.6 (s) H1.8 42.2 H153.5 2018 0.0 54.7 54.7 8.9 (s) 63.6 6.3 (s) R1.9 44.6 R171.1 2019 0.0 53.8 53.2 8.4 0.1 61.7 6.7 (s) R2.2 42.6 R167.0	2018		54.7	54.7		(s)	63.6	6.3	(s)	R 1.9	44.6	R 171.1	H 74 6	R 245.7 R 236.9
2019 0.0 53.8 53.2 8.4 0.1 61.7 6.7 (s) $^{\text{H}}2.2$ 42.6 $^{\text{H}}167.0$	2019		53.8		8.4	0.1	61.7	6.7	(s)	R 2.2	42.6	R 167.0	H 69.9	R 236.9
2020 0.0 50.1 46.4 7.9 0.1 54.3 R4.1 (s) R2.4 44.3 R155.3 2021 0.0 51.3 53.4 7.8 0.1 61.3 R4.9 (s) R2.6 44.7 R164.7	2020	0.0	50.1	46.4	7.9	0.1	54.3	R 4.1	(s)	R 2.4	44.3	R 155.3	H 70 0	R 225.2 R 235.1
2020         0.0         50.1         46.4         7.9         0.1         54.3         84.1         (s)         8.24         44.3         8155.3           2021         0.0         51.3         53.4         7.8         0.1         61.3         84.9         (s)         82.6         44.7         8164.7           2022         0.0         52.2         53.0         6.8         (s)         59.8         4.7         (s)         3.1         45.0         164.9	2021	0.0	51.3	53.4	7.8	0.1	61.3	n 4.9	(s)	<sup>n</sup> 2.6		n 164.7	R 70.3	n 235.1
2022 0.0 52.2 53.0 6.8 (s) 59.8 4.7 (s) 3.1 45.0 164.9	2022	0.0	52.2	53.0	6.8	(S)	59.8	4./	(S)	3.1	45.0	164.9	70.4	235.3

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Connecticut

					Pet	roleum			Under	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>	Wood		Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	79	3	5,029	250	52	63 76	871	6,264	NA			NA	1,825			
1965	35	6	4,434	277	38 18	76 97	958	5,783	NA NA			NA	2,873			
1970 1975	19 16	15 16	4,626 4,207	321 307	18	239	995 656	6,057 5,420	NA NA			NA NA	4,649 6,000			
1980	13	20	2,905	238	10 7	275	1,171	4,596	NA			NA	7,039			
1985	29	25	3,961	256	64	142	1,679	6,102	NA			ŅĄ	8,731			
1990 1995	10 22	29 38	3,481 3,017	343 350	51 27	204 250	1,034 447	5,113 4,092	0			(s) (s)	10,711 11,297			
2000	4	48	2,983	534	119	825	218	4,679	0			(s)	12,496			
2005	5	36	3,008	568	266	190	353	4,385	ŏ			(s)	13,949			
2006	3	33	2,726	469	181	46	317	3,739	0			(s)	13,611			
2007 2008	3	36 38	2,607 2,455	625 779	34 31	40 76	190 106	3,496 3,446	0			10	15,126 13,665			
2008	0	40	2,455 1,981	869	17	76 41	95	3,446	0			17	13,257			
2010	ő	41	2,086	792		39	90	3,015	0			18	13,428			
2011	0	45	2,131	792 889	9	41	8	3,078	0			18	13,087			
2012	0	42	1,724	716	1	35	. 8	2,484	0			23	12,976			
2013 2014	0	46 51	1,946 1,873	867 808	7	35 33	10 19	2,859 2,740	0			43 68	13,009 12,894			
2015	0	52	2,190	886	2	920	29	4,026	0			90	12,959			
2016	ŏ	50	1,510	810	4	889	29 35	3,248	ŏ			130	12,701			
2017	0	53	1,431	457	6	895	44	2,833	0			157	12,335			
2018 2019	0	58 58	1,511 1,252	725 751	3	910 916	26 24	3,175 2,948	0			200 226	12,381 12,158			
2020	0	56 52	1,024	812	4	925	11	2 775	0			279	11,146			
2021	ő	H 54	1,700	854	3	935	32	R 3,524	ő			342	11,701			
2022	0	55	1,665	715	3	966	33	3,381	0			382	11,626			
								Tri	llion Btu							
1960 1965	2.0	3.3	29.3 25.8	1.0	0.3	0.3 0.4	5.5 6.0	36.4	NA	0.1	NA	NA	6.2 9.8	48.0 50.1	R 12.6 R 19.3	R 60.5 R 69.4
1965 1970	0.8 0.4	5.9 14.7	25.8 26.9	1.1 1.2	0.2 0.1	0.4 0.5	6.0 6.3	33.5 35.0	NA NA	0.1 0.1	NA NA	NA NA	9.8 15.9	50.1 66.2	n 19.3	R 69.4 R 98.7
1975	0.4	16.0	24.5	1.2	0.1	1.3	4.1	31.1	NA NA	0.1	NA NA	NA NA	20.5	68.1	R 32.5 R 41.8	R 109 9
1980	0.3	20.6	16.9	0.9	(s)	1.4	4.1 7.4	26.7	NA	0.5	NA	NA	24.0	72.1	R 51 1	R 123.2
1985	0.7	25.3	23.1	1.0	0.4	0.7	10.6	35.7	NA	0.4	NA	NA	29.8	91.8	R 60.5	R 152.3
1990 1995	0.2	30.4	20.3	1.3	0.3	1.1	6.5 2.8	29.5 23.2	0.0	1.1	0.0	(s)	36.5 38.5	97.7	R 86.9	R 184.5
1995 2000	0.5 0.1	39.0 49.9	17.6 17.4	1.3 2.1	0.2 0.7	1.3 4.3	2.8 1.4	23.2 25.7	0.0 0.0	1.4 1.3	0.0 0.0	(s) (s)	38.5 42.6	102.7 119.6	R 86.9 R 91.2 R 99.3	R 193.9 R 218.9
2005	0.1	36.7	17.5	2.2	1.5	1.0	2.2	24.4	0.0	0.4	0.0	(s)	47.6	109.1	н 97.0	R 206.1
2006	0.1	33.5	15.8	1.8	1.0	0.2	2.0	20.9	0.0	0.4	0.0	(s)	46.4	101.3	R 92 2	R 206.1 R 193.5
2007	0.1	36.8	15.1	2.4	0.2	0.2	1.2	19.1	0.0	0.4	0.0	R (S)	51.6	108.0	R 102.3 R 89.8	n 210 2
2008 2009	0.0 0.0	38.4 40.7	14.2 11.4	3.0	0.2 0.1	0.4	0.7 0.6	18.4 15.7	0.0 0.0	0.4	0.0 0.0	Rnií	46.6 45.2	R 103.9 R 102.5	" 89.8 R oo 1	R 193.7 R 185.5
2010	0.0	40.7	12.0	3.3 3.0	(s)	0.2 0.2	0.6	15.7	0.0	0.8 0.8	0.0	R 0.1	45.2 45.8	R 104.3	R 83.1 R 85.2	R 185.5 R 189.5
2011	0.0	46.1	12.3	3.4	0.1	0.2		16.0	0.0	0.8	0.0	H n 1	44.7	H 107 6	R 75.2	H 182 8
2012	0.0	43.7	9.9	2.7	(s)	0.2 0.2	(s) (s)	12.9	0.0	0.8 0.7	0.0	B n 1	44.3	H 101 6	н 80 9	R 182.5
2013	0.0 0.0	47.3	11.2 10.8	3.3 3.1	(s)	0.2	0.1 0.1	14.8	0.0	1.5	0.0	R 0.1 R 0.2	44.4 44.0	R 108.2 R 112.6	R 78.7 R 78.2	R 186.9 R 190.8
2014 2015	0.0	52.6 53.9	10.8 12.6	3.1 3.4	(s) (s)	0.2 4.7	0.1 0.2	14.2 20.9	0.0 0.0	1.5 1.2	0.0 0.0	H U 3	44.0 44.2	rt 120 5	R 77.7	H 190.8 R 198.2
2016	0.0	51.7	8.7	3.1	(s)	4.5	0.2	16.5	0.0	0.9	0.0	R n a	43.3	H 112 Q	H 75 6	H 188 5
2017	0.0	54.0	8.2	1.8	(s)	4.5	0.3	14.8	0.0	1.0	0.0	n 0.5	42.1	H 112.5	H 73 Q	R 186 4
2018	0.0	59.9	8.7	2.8	(s)	4.6	0.2	16.3	0.0	0.9	0.0	H O 7	42.2	H 120 1	R 70.7 R 68.1	R 190.8 R 185.6
2019 2020	0.0 0.0	59.4 R 53.7	7.2	2.9 3.1	(s)	4.6	0.1 0.1	14.9 13.8	0.0	1.0 0.9	0.0 0.0	R 0.8 R 1.0	41.5	R 117.5 R 107.4	R 68.1 R 60.1	<sup>n</sup> 185.6 R 167.5
2020	0.0	R 55.1	5.9 9.8	3.1	(s) (s)	4.7 4.7	0.1	18.0	0.0 0.0	1.1	0.0	R 1.2	38.0 39.9	R 115.3	R 62.9	R 178.2
2022	0.0	56.7	9.6	2.7	(s)	4.9	0.2	17.4	0.0	0.9	0.0	1.3	39.7	116.0	62.1	178.1

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Connecticut

					Petrol	eum			Hvdro-	Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion Wh	End use f,k	system energy losses <sup> </sup>	Total <sup>f,k</sup>
1960	866	7	1,665 1,561	355	243 248	11,950	1,756	15,968	26				NA	2,837			
1965 1970	866 776 142	12 15	1,561 1,968	355 564 890	248 269	13,180 13,710	1,756 2,059 2,576	17,612 19,413	9				NA NA				
1975	29	16	1,944	1,280	36 66	9,124	1,950	14,334	7				NA NA	5,050			
1980	0	20	3,235	785	66	6,683	1.520	12,290	6				NA	5,944			
1985 1990	4	19 25 32	1,197 1,209	499 548	225 263	2,202 1,415	2,755 2,147	6,879 5,582	6 8				NA (s)	6,113 6,100			
1995	Ó	32	852	355	195	755	2,456	4,613	6				(s)	5,913			
2000	0	32	859	526	233	380	1,566	3,564	0				(s)	5,811			
2005 2006	1 0	20	930 979	2,080 2,136	561 578	1,109 590	2,655 2,406	7,334 6,689	0				(s) (s)	5,153 4,926			
2007	0	22 23 23	896	1,546	445 369	393 145	1,496	4,776	0				(s)	5.433			
2008	Ö	23	764	53	369	145	507	1,839	Ō				(s)	5,433 4,371			
2009 2010	0	25 24	823 668	82 144	353 495	168 25	2,296 2,375	3,723 3,706	0				1	3,692 3,713			
2011	0	26	654	153	482	17	2.128	3.433	0				i	3,668			
2012	0	26 27 30	487	153 64 83	481	8	1,705	2,744 3,278	0				2	3,566			
2013 2014	0	30	619 544	157	493 373	4 5	2,080 2,040	3,278	0	==			4 7	3,490 3,515			
2015	0	28 26	493	216	371	7	1 502	2 589	ő				10	3,432			
2016	0	24	506	135 55	373	2	R 1 020	Rogan	0				16	3,370			
2017 2018	0	25 25 25 25 23	543 577	55 104	378 384	2	R 2,058	R 3,036 R 3,015	0				21	3,244 3,210			
2019	0	25	533	162 98	385	0	R 1,949 R 1,846	R 2.925	0		==		25 30	3,072			
2020	0	23	625	98	388	0	H 1 205	R 3,006	0				42	2,860			
2021 2022	0	23 22	525 531	110 122	392 402	1	R 1,250 1,962	R 2,279 3,018	0				46 49	2,799 2,780			
LOLL			001	122	102	· ·	1,002	0,010	Trillion Bt	u			-10	2,700			
1960	22.8	7.5	9.7	1.3	1.3	75.1	11.1	98.5	R <sub>0.1</sub> R <sub>(s)</sub>	7.6	NA	NA	NA	9.7	R 146.2	R 19.5	R 165.8
1965	20.4	12.7	9.1	1.3 2.1	1.3	82.9	13.0	108.4		8.7	NA	NA	NA	13.2	H 163.4	R 25.9 R 35.6	R 189.3
1970 1975	3.4 0.7	14.9 15.6	11.5	3.2	1.4 0.2	86.2	15.8	118.1	R (s)	9.6 10.3	NA NA	NA NA	NA NA		163.4 B 100.6	H 35.6	R 199.0
1980	0.7	20.8	11.3 18.8	4.5 2.8	0.2	57.4 42.0	12.3 9.3	85.7 73.2	n (s)	18.5	NA NA	NA NA	NA NA	20.3	R 129.6 R 132.7	R 35.2 R 43.1 R 42.4	R 164.8 R 175.9
1985	0.1	19.5	7.0	1.7	1.2	13.8	17.7	41.4	R (s) R (s)	21.6	0.0	NA	NA	20.9	103.4	R 42.4	H 145.8
1990 1995	(s) 0.0	26.3 33.1	7.0 5.0	1.9 1.2	1.4 1.0	8.9 4.7	13.7 15.8	32.9 27.8	R (s)	2.1 2.9	0.0 0.0	0.0 0.0	(s) (s)	20.8 20.2	R 82.2 84.0	R 49.5 R 47.8	R 131.7 R 131.7
2000	0.0	33.1	5.0	1.8	1.2	2.4	9.6	20.0	0.0	5.0	0.0	0.0	(s)	19.8	77.9	R 46 2	R 124.0
2005	(s) 0.0	21.0	5.0 5.4	1.8 7.1	2.9	7.0	17.1	39.6	0.0	3.9	0.0	0.0	(s)	17.6	82.0	R 35.8 R 33.4	R 117 8
2006 2007	0.0	22.2 23.3	5.7 5.2	7.3 5.2	3.0 2.3	3.7 2.5	15.3 9.5	35.0 24.7	0.0	3.4 3.6	(s)	0.0 0.0	(s) (s)	16.8 18.5	77.4 70.1	H 33.4	R 110.8
2007	0.0	23.0	4.4	0.2	1.9	0.9	3.0	10.4	0.0	3.4	(s)	0.0	(s)	14.9	51.7	R 36.7 R 28.7	R 106.8 R 80.4
2009 2010	0.0	25.2	4.8	0.3 0.6	1.8	1.1	14.9	22.7 22.4	0.0	3.1	(s)	0.0	(s) (s)	12.6 12.7	63.6 _ 64.8	R 23.1 R 23.6	R 86.8 R 88.3
2010 2011	0.0	24.7 27.0	3.9 3.8	0.6 0.6	2.5 2.4	0.2 0.1	15.4 13.7	22.4 20.6	0.0	5.0 4.4	(s)	0.0		12.7 12.5	64.8 R 64.5	H 23.6 R 21.1	H 88.3 R 85.6
2011	0.0	27.0 27.8	3.8 2.8	0.6	2.4	0.1	11.0	16.6	0.0		(S)	0.0	(s) (s)	12.5	R 60.9	R 22 2	R 83.2
2013	0.0	30.5	3.6	0.3	2.5		13.5	19.9	0.0	4.4	(s)	0.0		11.9	66.8	R 22.2 R 21.1	R 87.9
2014	0.0	29.2	3.1	0.6	1.9	(s) (s) (s) (s) (s) (s)	13.2	18.8	0.0		(s)	0.0	R (s) R (s) R (s)	12.0	64.3 R 57.5	R 21.3 R 20.6	R 85.6
2015 2016	0.0 0.0	26.3 24.9	2.8 2.9	0.8 0.5	1.9 1.9	(S)	9.6 12.5	15.2 17.8	0.0	4.3 4.3	(s) (s)	0.0 0.0	0.1	11.7 11.5	R 58.6	R 20.6	R 78.1 R 78.6
2017	0.0	25.3	3.1	0.2	1.9	(s)	R 13 /	R 106	0.0	3.6	(s)	0.0	R 0.1	11.1	H 58.7	R 19.4	R 78.1 R 76.7
2018	0.0	25.3	3.3	0.4	1.9	(s)	R 12.7 R 12.0	R 18.3 R 17.7	0.0	3.6		0.0	R 0.1	11.0	58.4	R 18.3	H 76.7
2019 2020	0.0 0.0	25.3 23.7	3.1 3.6	0.6 0.4	1.9 2.0	0.0	H 12 3	R 18.3	0.0 0.0	3.6 3.6	(s)	0.0 0.0	R 0.1 R 0.1	10.5 9.8	57.2 R 55.5	R 17.2 R 15.4	R 74.4 R 71.0
2021	0.0	23.2	3.0	0.4	2.0	(s) (s)	H 8.1	13.5	0.0	3.6	(s)	0.0	R 0.2	9.6	R 50.1	H 15.0	H 65.1
2022	0.0	22.3	3.1	0.5	2.0	(s)	12.8	18.3	0.0	3.6	(s)	0.0	0.2	9.5	53.9	14.8	68.7

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Connecticut

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	15	(s)	104	1,117	2	1,129	258	19,044	204	21,857	0			
1965 1970	15 3	(s) (s) (s)	172 124	1,415	2 5 21	1,411	255 238	22,609	471 359	26,338 34,177	Ō			
1970 1975	(s)	(s)	124 90	2,266 2,391	21 26	2,897 2,013	238 196	28,273 31,547	359 581	34,177 36,844	0			
1980	(s) (s) 0	(s)	89	2.580	15	1,921	247	29,864	53	34,768	0			
1985	0	(s)	71	4.542	15 32 36	1,085	225 253	30,631	53 152	34,768 36,738	0			
1990	0	(s)	94	4,800	36	2,344	253	30,673	84 11	38.285	0			
1995 2000	0	3	41 30	4,756 5,470	26 33	2,489 2,599	242 258	30,146 33,875	22	37,711 42,287	0			
2005	ő	3	187	7.562	33 38	2.461	258 218	37.850	22 22	48.339	190			
2006 2007	0	3	127 126	7,646 7,669	23 17	2,249 2,056	212 219	37,086 37,422	5	47,349 47,524	177			
2007 2008	0	4	126 98	7,669 7,050	17 47	2,056 1,908	219 203	37,422 35,791	15	47,524 45,117	198 190			
2008	0	6	139	7,050 6,690	39	1,408	183	35,791	20 24 59	45,117 44,329	188			
2010	ŏ	7	88	6,735	9	1,938	221	35,192	59	44,241	186			
2011	Ō	6	83	6.869	9	1,995	212	34.245	65	43,477	185			
2012	0	5	77	6,614	9	2,123	191	33,584	26	42,624	193			
2013 2014	0	4 5	65 26	6,625 6,710	12 14	1,548 1,786	198 202	33,655 33,348	0	42,104 42,087	190 169			
2015	ŏ	5	22	6 643	20	1,571	221	33,898	ŏ	42,376	193			
2016	0	4	20	6,504 6,449	24	1,657	221 R 209	34,555	0	42,376 R 42,969 R 43,286	183			
2017	0	6	19	6,449 6.820	79	2,152	190 R 185	34,397	0	<sup>H</sup> 43,286 <sup>R</sup> 44,140	177			
2018 2019	0	6	20 23	6,820 6,885	55 38 37	2,503 1,984	R 176	34,557 34,144	0	R 43 251	181 177			
2020	ő	R 8	19	_ 6,614	37	1,052	R 150	28,272	0	R 36,144	126			
2021	Ö	7	22	H 6,818	43	1,549	H 161	30,942	Ō	n 39,638	145			
2022	0	6	22	6,612	42	1,781	176	33,282	0	42,000	171			
							Tri	llion Btu						
1960	0.4	0.2	0.5	6.5	(s) (s) 0.1	6.4	1.6	100.0	1.3	116.3	0.0	116.9	0.0	116.9
1965 1970	0.1	0.1 0.1	0.9 0.6	8.2 13.2	(s)	8.0 16.4	1.5	118.8 148.5	3.0 2.3	140.4 182.5	0.0 0.0	140.5 182.6	0.0 0.0	140.5 182.6
1975	(s) (s)		0.5	13.9	0.1	11.4	1.4 1.2	165.7	3.7	196.4	0.0	196.5	0.0	196.5
1980	0.0	(s) 0.1	0.4	15.0	0.1	10.9 6.1	1.5 1.4	156.9	0.3	185.1	0.0	185.2	0.0	185.2
1985	0.0	0.4	0.4	26.5	0.1		1.4	160.9	1.0	196.3	0.0	196.8	0.0	196.8
1990 1995	0.0 0.0	0.5 1.2	0.5 0.2	28.0 27.7	0.1 0.1	13.3 14.1	1.5 1.5	161.1 156.9	0.5 0.1	205.0 200.5	0.0 0.0	205.5 201.7	0.0 0.0	205.5 201.7
2000	0.0	3.2	0.2	31.8	0.1	14.7	1.6	176.2	0.1	224.7	0.0	228.0	0.0	_ 228.0
2005	0.0	3.5	0.9	44.0 44.4	0.1	14.0	1.3 1.3	196.5	0.1	257.0	0.6	261.2	1.3	H 262.5
2006	0.0	3.3	0.6	44.4	0.1	12.8	1.3	192.3	(s)	251.5	0.6	255.5	1.2	256.7
2007 2008	0.0 0.0	4.6 4.4	0.6 0.5	44.4 40.7	0.1 0.2	11.7 10.8	1.3 1.2	192.4 182.7	0.1 0.1	250.6 236.4	0.7 0.6	255.9 241.5	R 1.3 1.3	257.3 242.8
2009	0.0	6.0	0.5	38.7	0.1	8.0	11	182.5	0.1	231.2	0.6	237.9	1.2	R 239.0
2010	0.0	7.0	0.4	38.9	(s) (s)	11.0	1.3	178.3	0.4	230.4	0.6	238.0	1.2	239.2
2011	0.0	6.5	0.4	39.6	(s)	11.3	1.3	173.4	0.4	226.5	0.6	233.6	1.1	234.7
2012 2013	0.0 0.0	4.9 4.5	0.4 0.3	38.1 38.2	(s) (s)	12.0 8.8	1.3 1.3 1.2 1.2	170.0 170.3	0.2 0.0	221.9 218.8	0.7 0.6	227.5 224.0	1.2 R 1.1	228.7 R 225.1
2013	0.0	4.8	0.3	38.7	0.1	10.1	1.2	168.7	0.0	218.9	0.6	224.0	1.0	225.4
2015	0.0	5.3	0.1	38.3	0.1	8.9	1.2 1.3	171.4	0.0	220.1	0.7	226.1	1.2	225.4 227.2
2016	0.0	4.5	0.1	37.4 37.1	0.1	9.4 12.2	1.3 R 1.2	174.7	0.0 0.0	223.0	0.6 0.6	228.1	1.1	229.2
2017 2018	0.0 0.0	5.8 6.2	0.1 0.1	37.1	0.3 0.2	12.2	1.1	173.8 174.7	0.0	224.7 R 229.6	0.6	231.1 236.4	1.1 R 1.0	232.1 237.4
2019	0.0	7.0 R 7.9	0.1	39.6	0.1	11.3	11	174.7 172.5 142.8	0.0	224.7	0.6	232.3 R 196.3	1.0	233.3 P 197.0
2020	0.0	R 7.9	0.1	38.1 R 39.3	0.1	6.0	0.9 R 1.0	142.8	0.0	188.0	0.4	R 196.3	0.7	R 197.0
2021 2022	0.0 0.0	R 7.3 6.3	0.1 0.1	H 39.3 38.1	0.2 0.2	8.8 10.1	H 1.0 1.1	156.3 168.0	0.0 0.0	R 206.1 218.1	0.5 0.6	R 214.0 224.9	0.8 0.9	R 214.8 225.9
2022	0.0	0.3	0.1	30.1	0.2	10.1	1.1	100.0	0.0	∠10.1	0.0	224.9	0.9	220.9

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— —</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Connecticut

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million kil	lowatthours		Total <sup>f,i</sup>
1960	2,776	2	79	0	1,597	1,676	0	398		0	NA	NA	0	
1965 1970 1975 1980 1985	4,097 1,875	(s) (s)	126 1,018 232 168	0	2,550 20,531 22,150 21,428 17,006	2,676 21,550 22,382	0	179 327 487 250		0	NA	NA	0	
1970	1,8/5	(S)	1,018	0	20,531	21,550	3,604 8,135	327 487		0	NA NA	NA NA	0	
1980	0	(s) 0	168	ŏ	21,428	21.596	11,835 12,721	250		ŏ	NA	NA	ŏ	
1985	774 1,480 1,569 1,473 2,070	2	83	0	17,006	17,089	12,721	258		0	0	0	42	
1990 1995 2000 2005	1,480	13 29 34 64	199 169 142 101	0	14,021 5,589 11,215 5,125	14,219 5.758	19,776 18,749	563 358		0	0	0	37 1.276	 
2000	1,473	34	142	Ö	11,215	5,758 11,357 5,227	18,749 16,365 15,562	526 478		0	Ö	Ō	1,276 1,585 1,163	
2005	2,070	64	101 71	0	5,125	5,227 2,231	15,562 16,589	478 544		0	0	0	1,163	
2006 2007	2,245 1,936 2,221	76 74	71	0	2,100	2,266	16,386	363		0	0	0	1,165 1,509	
2008	2,221	59	69	0	2,160 2,195 882 490 702	951	16,386 15,433	363 556		0	0	0	1,990	
2009 2010	1,196	71	50 62	0	490	540 764	16,657 16,750	510 301		0	0	0	2,401 1,781	
2011	2,221 1,196 1,366 325 415 419 499	76 74 59 71 85 108	46	0	243	764 288	15 928	391 567		0	0	0	2,346	
2012 2013 2014	415	114	39 137 149	0	178 332 636	216 469 785	17,078 17,080 15,841	312		0	0	0	0	
2013	419 400	107	137	0	332 636	469 785	17,080	402 434		0	0 12	0	584 671	
2015	359	120	224	Ő	392	615	17,411	302		Ő	17	ő	626	
2015 2016 2017	359 128 137	114 107 100 120 123	224 62 91	0	392 83 175	615 145 266 536 47	17,411 16,575 16,500	302 224 332		0	25 39	13 13 12 12	546 527	
2017 2018	137 221	109	91 224	0	1/5 312	266 536	16,500	332 555	 	0	105	13	527 530	 
2018 2019	221 48	136 143	224 31	ŏ	312 16	47	16,881 16,733	555 428		ŏ	105 134	12	530 0	
2020	4	158	30	0	60	90	15,715	326		0	209	12	0	
2021 2022	158 0	158 163 165	43 80	0	66 497	109 577	17,217 16,464	478 312		0	209 262 407	12 13 13	0	
							Trillion Btu							
1960 1965 1970 1975 1980 1985	73.7 106.2 44.2 0.1	1.8 0.3	0.5 0.7 5.9	0.0	10.0 16.0	10.5	0.0	R 1.4 R 0.9 R 0.9 R 1.2 R 1.8 R 1.9 R 1.9 R 1.7 R 1.9 R 1.1 R 1.1 R 1.1 R 1.5 R 1.1 R 1.5	0.0	0.0	NA	NA	0.0 0.0 0.0 0.0	R 87.4 R 123.9 R 220.0 R 232.3 R 265.6 R 265.5 R 367.7 R 335.9 R 351.2 R 220.8 R 319.9 R 319.9 R 319.9 R 319.9 R 315.8 R 299.0
1905	106.2	0.3	0.7 5.9	0.0 0.0	16.0	16.8 135.0	0.0 39.6	R 1 1	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	R 220.0
1975	0.1	0.3	1.3	0.0	129.1 139.3	140.6	89.6	R 1.7	0.0	0.0	NA	NΔ	0.0	R 232.3
1980	0.0 20.4	0.0 1.6	1.3 1.0 0.5	0.0 0.0	134.7 106.9	135.7 107.4	129.1 135.1	H 0.9	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0 0.0 0.0 0.0	0.0 0.1	H 265.6 R 265.5
1990	38.2	13.1	1.2	0.0	88.1	89.3	209.3	R 1.9	15.9	0.0	0.0	0.0	0.1	R 367.7
1990 1995 2000	38.2 40.2 36.1	13.1 29.5 34.8	1.2 1.0 0.8	0.0	88.1 35.1 70.5	89.3 36.1 71.3	209.3 197.0 170.7	R 1.2	15.9 27.5 31.0	0.0	0.0 0.0	0.0	4.4 5.4	R 335.9
2000	36.1 41.9	34.8 64.6	0.8	0.0	/0.5 32.2	/1.3 32.8	1/0./	<sup>□</sup> 1.8 R 1.6	31.0 13.6	0.0 0.0	0.0 0.0	0.0	5.4	<sup>n</sup> 351.2 R 320.8
2005 2006 2006 2007 2008 2009 2010	41.9 45.6 39.8 45.2 26.3 28.7	64.6 76.7 74.5 60.2 71.7 86.6	0.6 0.4	0.0 0.0	32.2 13.6	32.8 14.0 14.2	162.4 173.1	B 1.9	13.6 13.6 13.1 13.3 13.5 13.2	0.0	0.0	0.0	4.0 4.0	R 328.9
2007	39.8	74.5	0.4	0.0	13.8	14.2	171.9	R 1.2	13.1	0.0	0.0	0.0	5.1	R 319.9
2008	45.2 26.3	60.2 71.7	0.4 0.3 0.4	0.0 0.0	5.5 3.1 4.4	5.9 3.4 4.8	161.3 174.2	'' 1.9 R 1 7	13.3 13.5	0.0 0.0	0.0	0.0	6.8 8.2 6.1	11 294.5 R 299.0
2010	28.7	86.6	0.4	0.0	4.4	4.8	174.2 175.1	R 1.3	13.2	0.0	0.0 0.0	0.0	6.1	R 315.8
2011 2012	6.1	110.5	0.3	0.0	1.5	1.8	166.7	H 1.9	12.5	0.0	0.0	0.0	8.0	H 307.5
2012	6.1 9.3 7.7	110.5 117.5 110.0	0.2 0.8	0.0 0.0	1.1 2.1	1.8 1.3 2.9	179.0 178.5	11.1 R 1.4	12.5 12.2 11.3	0.0 0.0	0.0	0.0	0.0 2.0	R 313 6
2014 2015	9.1	103.0	0.9	0.0	4.0	4.9	165.7 182.1	R 1.5	13.1	0.0	R (s)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.3	R 299.5
2015	9.1 6.5 2.3	103.0 123.2 126.2	0.9 1.3 0.4	0.0	4.0 2.5 0.5	3.8	182.1	H 1.0	13.1 13.7 15.9	0.0	H 0.1	0.0 R (s)	2.3 2.1 1.9	H 332.4
2016	2.3	126.2	0.4	0.0 0.0	U.5 1 1	0.9 1.6	173.4 172.6	R 1 1	15.9	0.0	R 0.1	R (s)	1.9	R 304 5
2017 2018	2.5 4.0 0.9	139.9	0.5 1.3	0.0	1.1 2.0	1.6 3.2	172.6 176.5	R 1.9	13.1 12.7	0.0 0.0	R 0.4	R (s)	1.8	R 340.4
2019	0.9	147.7	0.2	0.0	0.1	0.3	174.7	H 1.5	12.0	0.0	H 0.5	R (s)	0.0	H 337.6
2020 2021 2022	0.1 2.9 0.0	111.7 139.9 147.7 162.7 168.3 169.7	0.2 0.2 0.5	0.0 0.0 0.0	0.4 0.4 3.1	0.3 0.5 0.7 3.6	164.2 R 179.6	R 1.1 R 1.6 1.1	12.7 12.5 9.0	0.0 0.0 0.0	0.0 R (s) R 0.1 R 0.1 R 0.1 R 0.4 R 0.5 R 0.7 R 0.9 1.4	R (s) R (s) (s)	1.8 1.8 0.0 0.0 0.0 0.0	R 366.4
2022	0.0	169.7	0.5	0.0	3.1	3.6	171.7	1.1	9.0	0.0	1.4	(s)	0.0	R 299.5 R 332.4 R 321.5 R 304.5 R 304.4 R 337.6 R 342.0 R 366.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Delaware

Page							Petroleum								
Thousand parties   Thousand parties   Thousand barrels   Thousand ba							retroicum				1	Hvdro-			
Thousand Darrels   Thousand Da		Coal		Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>			Other <sup>f</sup>	Total		electric	Wind		Biodiesel
1900   791   9   2,712   1,007   2,144   4,314   6,246   5,175   21,599   0   0   0   NA   1500   1,151   19   2,272   1,507   2,168   2,007   5,538   6,040   2,273   0   0   0   NA   1507   1,151   1,251   2,252   2,252   0   0   0   NA   1507   1,251   2,252	Year						Thousand barrels				M	lillion kilowatthou	rs	Thousan	d barrels
1965 1,103 18															
1972 859 24 4.367 8 2.631 1,305 6,737 8,948 5,502 30,727 0 0 0 NA 19734 878 20 4.491 2,735 1,759 7,705 12,97 8,948 5,502 30,727 0 0 0 NA 19757 937 19 4.309 2,554 1,554 7,069 10,218 4,861 30,765 0 0 0 NA 19767 937 19 4.409 2,554 1,554 7,069 10,218 4,861 30,765 0 0 0 NA 19778 13 19 4.409 2,554 1,554 7,358 11,308 1,508 1,509 11,509	1960 1965	791 1 103	9 18	2,712 3,275	1,007 1,507	2,144 2,086	4,314 5,076	6,246 5,538	5,175 6,040	21,599 23,522		•			NA NA
1972 859 24 4.367 8 2.631 1,305 6,737 8,948 5,502 30,727 0 0 0 NA 19734 878 20 4.491 2,735 1,759 7,705 12,97 8,948 5,502 30,727 0 0 0 NA 19757 937 19 4.309 2,554 1,554 7,069 10,218 4,861 30,765 0 0 0 NA 19767 937 19 4.409 2,554 1,554 7,069 10,218 4,861 30,765 0 0 0 NA 19778 13 19 4.409 2,554 1,554 7,358 11,308 1,508 1,509 11,509	1970	1,541	26	4,308	2,255	2,062	6,247	6,588	5,832	27,293	Ō	•	0	NA	NA
1979	1971	1.491	26	4,350	2.286	2.032	6,526	6.284	5,901	27,379		0		NA	NA NA
1974 878 20 4.391 2.735 1.736 7.005 12.317 5.059 33.283 0 0 0 NA 1978 19 4.206 2.51 1.564 7.005 10.218 1.006	1973	853	23	4 398	2 761	1.729	7.142	12 900	5.122	34.051		0	0		NA
1978 882 21 4.222 2.819 1.416 7.328 11.490 4.7381 32.010 0 0 0 NA 1981 1.60 30 30 3.16 3.789 1.413 6.894 12.717 5.77 35.2896 0 0 0 NA 1981 2.033 31 3.125 3.789 1.413 6.894 12.717 2.890 2.40.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1974	878	20	4,391	2,735	1,756	7,005	12,317	5,059	33,263	0	0	0		NA
1978 882 21 4.222 2.819 1.416 7.328 11.490 4.7381 32.010 0 0 0 NA 1981 1.800 1.500 30 3.16 3.789 1.416 7.328 11.490 5.077 35.2680 0 0 0 NA 1981 2.033 31 3.125 3.789 1.473 6.884 12.717 2.710 5.073 32.00 2.1334 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1975 1976	937 811	19 19	4,309 4.586	2,654 2,717	1,654 1,582	7,069 7,395	10,218 11 308	4,861 5,086	30,765 32,673		0			NA NA
1978 882 21 4.222 2.819 1.416 7.328 11.490 4.7381 32.010 0 0 0 NA 1981 1.60 30 30 3.16 3.789 1.413 6.894 12.717 5.77 35.2896 0 0 0 NA 1981 2.033 31 3.125 3.789 1.413 6.894 12.717 2.890 2.40.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1977	733	16	4,794	2,679	1,666	7,333	12,140	4,761	33,373	Ŏ	Ő	Ō	NA	NA NA
1980 1,130 30 3,716 3,199 1,573 6,514 12,777 4,777 32,596 0 0 0 0 0 0 0 1981 1982 2,587 38 3,525 874 1,184 6,826 6,827 1,185 1	1978	892	21	4,222	2,819	1,416	7,326	11,490	4,738	32,010		0		NA	NA
1981   2,033   31   3,125   873   1,482   6,882   8,777   2,880   24,029   0   0   0   0   0   0   1980   24,029   0   0   0   0   0   0   0   1980   2,883   33   3,382   884   1,884   7,740   5,656   3,200   21,384   0   0   0   0   0   0   0   0   0	1980	1 130	25 30	3,617	3 199	1.573	6,999	12.717	5,011 4,777	32 596	•	0			NA NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1981	2,033	31	3,125	873	1,482	6,882	8,777	2,890	24,029		Ö	Ö	(s)	NA NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1982	1,907	28	2,755	884	1,484	6,620	6,391	3,200	21,334	0	0	0		NA NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1984	2,813	43	3,788	1,316	1.586	7,440	5,012	3,833	22,976	0	0	0	•	NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1985	2,766	38	3,696	994	1,569	7,556	3.602	4.385	21,803	0	0	0		NA NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1986 1987	2,565 2,710	33 37	3,521 4 176		1,341 1 287	7,719 7,885	5,101 4.766	3,941 4,073	22,500 23 193	0	0	0	•	NA NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1997   1,866   47   3,339   1,217   73   8,587   4,389   5,780   23,386   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1988	2,686	29	4,194	1,017	1,362	8,184	6,365	4,342	25,465		ő			NA NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1989	2,357	35	4,397	950	1,255	8,155	5.758	4,395	24.909		0			NA
1992   1,770   40   3,510   925   1,451   8,153   4,920   7,079   26,039   0   0   0   0   0   0   1994   2,226   49   3,710   1,264   566   8,304   5,672   5,509   25,024   0   0   0   0   0   0   1995   2,011   61   3,386   1,361   76   8,471   4,066   5,209   22,569   0   0   0   0   0   0   1996   1,956   54   3,755   1,707   62   8,453   5,425   5,979   25,380   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   1998   1,773   41   3,164   1,427   87   9,079   4,465   5,428   23,649   0   0   0   0   0   0   0   0   0	1991	2,293	42	3.739	1.098	2.397		3,604 4.992	4.647	24,646		0	0	0	NA NA
1994	1992	1 770	40	3,510	925	1,451	8 153	4,920	7,079	26,039		Ō	0		NΔ
1999 1,393 56 3,322 1,118 105 9,259 4,888 5,544 24,206 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1993	2,446	42	3,657 3,710	1,015 1,264	1,440 566	8,312 8,304	6,373 5,672	5,145 5,509	25,942 25,024	•	0	0	0	NA NA
1999 1,393 56 3,322 1,118 105 9,259 4,888 5,544 24,206 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1995	2,011	61	3.386	1,361	76	8,471	4,066	5,209	22,569	ŏ	Ő	ő	ő	NA NA
1999 1,393 56 3,322 1,118 105 9,259 4,888 5,544 24,206 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1996	1,956	54	3,755	1,707	62	8,453	5.425	5,979	25.380		0	•		NA
1999 1,393 56 3,322 1,118 105 9,259 4,888 5,544 24,206 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1997	1,866	47	3,339		73 87	9,587	4,389 4 465	5,780 5,428	23,386 23,649		0			NA NA
2001 1,653 50 3,508 1,352 129 9,299 5,021 5,325 24,634 0 0 0 0 0 0 0 2002 1,640 52 3,607 1,290 124 9,945 3,599 5,422 23,987 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1999	1,393	56	3,322	1,118	105	9 259	4,858	5,544	24,206	Ö	Ō	Ö	Ö	NA
2004 2,174 48 3,412 1,355 166 10,065 2,904 5,051 22,953 0 0 0 0 0 0 20 2005 2,325 47 3,476 1,401 167 10,530 3,176 5,791 24,542 0 0 0 0 0 267 2006 2,291 43 3,216 1,249 144 10,827 2,046 5,285 22,767 0 0 0 0 789 2007 2,566 48 3,033 1,124 113 11,034 2,134 5,025 22,464 0 0 0 0 988 2008 2,476 48 2,606 1,195 117 10,613 1,842 4,804 21,177 0 0 0 0 814 2009 1,374 50 2,939 1,383 80 10,578 1,428 580 16,988 0 0 0 0 880 2010 1,230 55 2,583 1,395 2,925 10,615 672 1,599 19,789 0 0 0 3 1,127 2011 717 80 2,437 1,266 2,377 10,183 277 5,322 21,862 0 0 0 5 1,052 2012 682 102 2,192 1,119 1,875 10,184 416 5,030 2,0816 0 0 0 4 1,016 2013 708 96 2,251 1,213 1,299 10,225 166 4,498 19,651 0 0 0 4 1,053 2014 397 101 2,521 1,361 1,286 10,192 185 4,439 19,984 0 0 0 5 1,160 2016 329 109 2,473 1,145 1,339 11,564 176 14,602 21,298 0 0 0 5 1,198 2019 2016 329 109 2,473 1,145 1,339 11,564 176 176 18,602 21,298 0 0 0 5 1,370 2018 167 96 3,019 1,279 1,952 12,299 127 8,446 82,122 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 13,034 103 8,4,432 823,440 0 0 0 5 1,370 2020 76 8 86 2447 1125 1,472 10,82 124 84,284 80 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 2020 76 8 86 2447 1125 1472 10,822 124 84,284 80 2073 0 0 0 5 1,370 2019 2020 76 8 86 2447 1125 1472 10,822 124 84,284 80 2073 0 0 0 5 1,370 2020 76 8 86 2447 1125 1472 10,822 124 84,284 80 2073 0 0 0 5 5 1,370 2020 76 8 80 2020 76 8 80 2020 776 8 86 2447 1125 1472 10,822 124 84,284 80 20273 0 0 0 5 5 1,344	2000	1,934	48	4,309	1,006	104	8,999	4,170 5,021	4,688 5,325	23,277	0	0	0	0	NA (s)
2004 2,174 48 3,412 1,355 166 10,065 2,904 5,051 22,953 0 0 0 0 0 0 20 2005 2,325 47 3,476 1,401 167 10,530 3,176 5,791 24,542 0 0 0 0 0 267 2006 2,291 43 3,216 1,249 144 10,827 2,046 5,285 22,767 0 0 0 0 789 2007 2,566 48 3,033 1,124 113 11,034 2,134 5,025 22,464 0 0 0 0 988 2008 2,476 48 2,606 1,195 117 10,613 1,842 4,804 21,177 0 0 0 0 814 2009 1,374 50 2,939 1,383 80 10,578 1,428 580 16,988 0 0 0 0 880 2010 1,230 55 2,583 1,395 2,925 10,615 672 1,599 19,789 0 0 0 3 1,127 2011 717 80 2,437 1,266 2,377 10,183 277 5,322 21,862 0 0 0 5 1,052 2012 682 102 2,192 1,119 1,875 10,184 416 5,030 2,0816 0 0 0 4 1,016 2013 708 96 2,251 1,213 1,299 10,225 166 4,498 19,651 0 0 0 4 1,053 2014 397 101 2,521 1,361 1,286 10,192 185 4,439 19,984 0 0 0 5 1,160 2016 329 109 2,473 1,145 1,339 11,564 176 14,602 21,298 0 0 0 5 1,198 2019 2016 329 109 2,473 1,145 1,339 11,564 176 176 18,602 21,298 0 0 0 5 1,370 2018 167 96 3,019 1,279 1,952 12,299 127 8,446 82,122 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 13,034 103 8,4,432 823,440 0 0 0 5 1,370 2020 76 8 86 2447 1125 1,472 10,82 124 84,284 80 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 85 90 2,817 1,251 1,804 13,034 103 84,432 823,440 0 0 0 5 1,370 2019 2020 76 8 86 2447 1125 1472 10,822 124 84,284 80 2073 0 0 0 5 1,370 2019 2020 76 8 86 2447 1125 1472 10,822 124 84,284 80 2073 0 0 0 5 1,370 2020 76 8 86 2447 1125 1472 10,822 124 84,284 80 2073 0 0 0 5 5 1,370 2020 76 8 80 2020 76 8 80 2020 776 8 86 2447 1125 1472 10,822 124 84,284 80 20273 0 0 0 5 5 1,344	2001	1,640	50 52	3,607	1.290	124	9,945	3,599	5,422	23,987	0	0	0	•	(s)
2006         2,291         43         3,216         1,249         144         10,827         2,046         5,285         22,767         0         0         0         789           2007         2,566         48         3,033         1,124         113         11,034         2,134         5,025         22,464         0         0         0         988           2008         2,476         48         2,606         1,195         117         10,613         1,842         4,804         21,177         0         0         0         0         814           2009         1,374         50         2,939         1,383         80         10,578         1,428         580         16,988         0         0         0         880           2010         1,230         55         2,583         1,395         2,925         10,615         672         1,599         19,789         0         0         3         1,127         2011         717         80         2,437         1,266         2,377         10,183         277         5,322         21,862         0         0         0         5         1,052           2012         682         102         2,1	2003	1,887	46	3.947	1 393	142	9.894	3.573	5.551	24,500	0	0	0	•	(s)
2006         2,291         43         3,216         1,249         144         10,827         2,046         5,285         22,767         0         0         0         789           2007         2,566         48         3,033         1,124         113         11,034         2,134         5,025         22,464         0         0         0         988           2008         2,476         48         2,606         1,195         117         10,613         1,842         4,804         21,177         0         0         0         0         814           2009         1,374         50         2,939         1,383         80         10,578         1,428         580         16,988         0         0         0         880           2010         1,230         55         2,583         1,395         2,925         10,615         672         1,599         19,789         0         0         3         1,127         2011         717         80         2,437         1,266         2,377         10,183         277         5,322         21,862         0         0         0         5         1,052           2012         682         102         2,1	2004 2005	2,174 2,325	48 47		1,355 1 401		10,065 10,530	2,904 3.176	5,051 5,791	22,953 24 542	0	0	0		(S) 1
2010 1,230 55 2,583 1,395 2,925 10,615 672 1,599 19,789 0 0 3 1,1727 2011 717 80 2,437 1,266 2,377 10,183 277 5,322 21,862 0 0 5 5 1,052 2012 682 102 2,192 1,119 1,875 10,184 416 5,030 20,816 0 0 4 1,016 2013 708 96 2,251 1,213 1,299 10,225 166 4,498 19,651 0 0 4 1,053 2014 397 101 2,521 1,361 1,286 10,192 185 4,439 19,984 0 0 5 5 1,059 2015 276 103 2,646 1,389 1,325 11,136 130 4,562 21,188 0 0 0 5 1,160 2016 329 109 2,473 1,145 1,339 11,564 176 P4,602 21,298 0 0 0 5 1,198 2017 186 99 2,408 935 1,817 11,887 53 P4,649 P2,1748 0 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 P4,446 P2,1748 0 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 P4,432 P2,3440 0 0 5 5 1,370 2020 76 P8 6 2447 1,125 1,472 10,822 124 P4,284 P2,0273 0 0 0 5 1,148	2006	2 291	43	3,216	1 249	144	10,827	2,046	5,285	22,767		ő		789	2
2010 1,230 55 2,583 1,395 2,925 10,615 672 1,599 19,789 0 0 3 1,1727 2011 717 80 2,437 1,266 2,377 10,183 277 5,322 21,862 0 0 5 5 1,052 2012 682 102 2,192 1,119 1,875 10,184 416 5,030 20,816 0 0 4 1,016 2013 708 96 2,251 1,213 1,299 10,225 166 4,498 19,651 0 0 4 1,053 2014 397 101 2,521 1,361 1,286 10,192 185 4,439 19,984 0 0 5 5 1,059 2015 276 103 2,646 1,389 1,325 11,136 130 4,562 21,188 0 0 0 5 1,160 2016 329 109 2,473 1,145 1,339 11,564 176 P4,602 21,298 0 0 0 5 1,198 2017 186 99 2,408 935 1,817 11,887 53 P4,649 P2,1748 0 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 P4,446 P2,1748 0 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 P4,432 P2,3440 0 0 5 5 1,370 2020 76 P8 6 2447 1,125 1,472 10,822 124 P4,284 P2,0273 0 0 0 5 1,148	2007	2,566	48	3,033	1,124	113	11,034	2,134	5,025	22,464		0		988	3
2010 1,230 55 2,583 1,395 2,925 10,615 672 1,599 19,789 0 0 3 1,1727 2011 717 80 2,437 1,266 2,377 10,183 277 5,322 21,862 0 0 5 5 1,052 2012 682 102 2,192 1,119 1,875 10,184 416 5,030 20,816 0 0 4 1,016 2013 708 96 2,251 1,213 1,299 10,225 166 4,498 19,651 0 0 4 1,053 2014 397 101 2,521 1,361 1,286 10,192 185 4,439 19,984 0 0 5 5 1,059 2015 276 103 2,646 1,389 1,325 11,136 130 4,562 21,188 0 0 0 5 1,160 2016 329 109 2,473 1,145 1,339 11,564 176 P4,602 21,298 0 0 0 5 1,198 2017 186 99 2,408 935 1,817 11,887 53 P4,649 P2,1748 0 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 P4,446 P2,1748 0 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 P4,432 P2,3440 0 0 5 5 1,370 2020 76 P8 6 2447 1,125 1,472 10,822 124 P4,284 P2,0273 0 0 0 5 1,148	2008	1.374	48 50	2,606	1,195	80	10,613	1,842	4,804 580	16.988	0	0	0	814 880	3
2013 708 96 2,251 1,213 1,299 10,225 166 4,498 19,651 0 0 4 1,053 2014 397 101 2,521 1,361 1,286 10,192 185 4,439 19,984 0 0 0 5 1,059 2015 276 103 2,646 1,389 1,325 11,136 130 4,562 21,188 0 0 0 5 1,160 2016 329 109 2,473 1,145 1,339 11,564 176 P4,602 21,298 0 0 0 5 1,198 2017 186 99 2,408 935 1,817 11,887 53 P4,649 P21,748 0 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 P4,446 P21,748 0 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 P4,432 P23,440 0 0 5 5 1,370 2020 76 P8 6 2,447 1,125 1,472 10,822 124 P4,284 P2,073 0 0 0 5 1,148	2010	1 230	55	2,583	1.395	2,925	10 615	672	1.599	19,789	ő	ő	3	1 127	2
2013 708 96 2,251 1,213 1,299 10,225 166 4,498 19,651 0 0 4 1,053 2014 397 101 2,521 1,361 1,286 10,192 185 4,439 19,984 0 0 0 5 1,059 2015 276 103 2,646 1,389 1,325 11,136 130 4,562 21,188 0 0 0 5 1,160 2016 329 109 2,473 1,145 1,339 11,564 176 P4,602 21,298 0 0 0 5 1,198 2017 186 99 2,408 935 1,817 11,887 53 P4,649 P21,748 0 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 P4,446 P21,748 0 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 P4,432 P23,440 0 0 5 5 1,370 2020 76 P8 6 2,447 1,125 1,472 10,822 124 P4,284 P2,073 0 0 0 5 1,148	2011	717	80	2,437	1,266	2,377	10,183	277	5,322	21,862	•	0	5	1,052	8 6
2016 329 109 2,473 1,145 1,339 11,564 176 4,602 21,298 0 0 5 1,198 2017 186 99 2,408 935 1,817 11,887 53 4,649 21,748 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 4,446 23,122 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 8,432 8,23,440 0 0 5 1,370 2020 76 8,86 2,447 1,125 1,472 10,822 124 8,4284 2,9073 0 0 5 1,148	2012	708	96	2,192	1,213	1,299	10,104	166	4,498	19,651	ŏ	0	4	1,053	
2016 329 109 2,473 1,145 1,339 11,564 176 4,602 21,298 0 0 5 1,198 2017 186 99 2,408 935 1,817 11,887 53 4,649 21,748 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 4,446 23,122 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 8,432 8,23,440 0 0 5 1,370 2020 76 8,86 2,447 1,125 1,472 10,822 124 8,4284 2,9073 0 0 5 1,148	2014	397	101	2,521	1,361	1,286	10,192	185	4,439	19,984		Ö		1,059	31
2017 186 99 2,408 935 1,817 11,887 53 R4,649 R21,748 0 0 5 1,237 2018 167 96 3,019 1,279 1,952 12,299 127 R4,446 R23,122 0 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 R4,432 R23,440 0 0 5 1,370 2020 76 R86 2,447 1,125 1,472 10,822 124 R4,284 R20,273 0 0 5 1,148 2021 172 R80 R2,690 1,186 2,003 11,614 53 R4,400 R21,946 0 0 5 1,240 2022 70 87 2,792 1,285 1,730 11,417 96 4,323 21,642 0 0 0 4 1,222	2016	2/6 329	103 109	2,646 2,473	1,389 1 145	1 339	11,136 11,564	130 176	4,562 R 4 602	21,188 21,298		0	5	1 198	37 62
2018 167 96 3,019 1,279 1,952 12,299 127 H4,446 H23,122 0 0 0 5 1,269 2019 85 90 2,817 1,251 1,804 13,034 103 H4,432 H23,440 0 0 0 5 1,370 2020 76 H26 2,447 1,125 1,472 10,822 124 H2,284 H20,273 0 0 5 1,148 2021 172 H26 H26 H26 1,186 2,003 11,614 53 H4,400 H21,946 0 0 5 1,240 2022 70 87 2,792 1,285 1,730 11,417 96 4,323 21,642 0 0 0 4 1,222	2017	186	99	2,408	935	1,817	11,887	53	R 4,649	R 21,748	Ŏ	ŏ	5	1.237	64
2019 65 50 2,617 1,651 1,604 15,054 105 : 4,452 : 25,440 0 0 5 1,370 2020 76 R 86 2,447 1,125 1,472 10,822 124 R 4,284 R 20,273 0 0 5 1,148 2021 172 R 80 R 2,690 1,186 2,003 11,614 53 R 4,400 R 21,946 0 0 5 1,240 2022 70 87 2,792 1,285 1,730 11,417 96 4,323 21,642 0 0 4 1,222	2018	167	96		1,279	1,952	12.299	127	H 4,446	H 23,122	0	0	5	1,269	42
2021 172 R80 R2,690 1,186 2,003 11,614 53 R4,400 R21,946 0 0 5 1,240 2022 70 87 2,792 1,285 1,730 11,417 96 4,323 21,642 0 0 0 4 1,222	2020	76	R 86	2.447	1.125	1.472	10.822	124	'' 4.284	R 20,273	0	0	5 5	1 148	30
2022 /0 8/ $2$ /92 1.285 1.730 11.417 96 4.323 21.642 0 0 $0$ 4 1.292	2021	172	R 80	R 2,690	1,186	2,003	11,614	53	H 4,400	<sup>n</sup> 21,946	Ō	Ō	5	1,240	30 31 37 62 64 42 31 30 8 26
20E .0 0. E, 0E 1,000 1,100 1,111 00 1,000 E1,01E 0 0 T	2022	70	87	2,792	1,285	1,730	11,417	96	4,323	21,642	0	0	4	1,222	22

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Delaware (trillion Btu)

	(trillioi	/									T		
					Fossil						_	Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960 1965 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 1999 1999 1999 1999 1999	20.5 29.0 37.2 36.7 23.5 21.0 21.3 22.9 20.2 17.7 21.8 23.9 28.1 50.6 47.9 73.0 72.8 71.4 66.4 70.5 69.0 61.2 59.5 56.9 46.1 63.5 57.5 52.4 50.8 48.6 45.8 35.9 50.1 38.3 40.5 47.0 53.6 56.7			3.8 5.7 8.3 8.4 9.6 10.0 9.9 9.5 9.8 9.5 9.9 26.2 11.4 3.2 3.2 3.3 4.8 3.7 3.7 3.8 3.7 3.8 4.7 5.1 6.3 4.7 5.1 6.3 4.7 5.1 6.3 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	11.5 11.2 11.1 10.9 10.2 9.3 9.4 8.9 8.5 9.0 7.6 7.6 7.6 8.4 8.0 8.0 8.0 7.4 7.2 6.9 7.3 6.8 7.0 12.9 7.8 7.7 3.0 0.4 0.4 0.5 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	fuel ethanol a   22.7   26.7   32.8   34.3   35.4   37.5   36.8   37.1   38.5   36.8   34.7   36.1   34.8   37.9   39.1   39.7   40.5   41.4   43.0   42.8   42.1   41.0   42.8   43.4   43.3   44.1   44.1   44.7   47.2   48.2   46.8   48.4   48.4   51.7   51.4   52.3   53.7	39.3 34.8 41.4 39.5 59.6 81.1 77.4 64.2 71.1 76.3 72.2 70.2 80.0 55.2 40.2 31.8 31.5 22.6 32.1 30.0 40.0 36.2 23.9 31.4 30.9 40.1 35.7 25.6 34.1 30.9 40.1 35.7 25.6 34.1 30.9 40.1 36.2 23.9 31.4 30.9 40.1 36.2 23.9 31.4 30.9 40.1 36.2 23.1 30.9 40.1 36.2 26.2 31.6 36.3 36.7 26.2 31.6 36.3 36.7 36.3 36.7 36.3 36.7 36.3 36.7 36.3 36.7 36.7	0ther d  30.9 36.2 35.2 35.7 33.8 30.9 30.6 29.5 30.6 28.5 28.3 30.0 28.6 17.9 19.7 22.9 23.1 27.0 24.4 25.0 26.4 26.6 42.1 28.0 42.5 30.9 33.1 31.4 35.9 34.6 32.5 33.2 28.3 32.3 33.1 33.7 31.0 35.3	Total  123.9 133.7 154.0 154.1 174.1 194.4 189.7 174.3 185.5 189.7 181.1 191.8 184.8 138.6 121.9 122.9 129.1 123.0 128.0 131.3 144.9 141.6 139.5 139.1 148.0 147.2 141.4 126.2 142.6 131.4 132.1 136.1 130.8 138.5 138.5 138.5 138.5 138.5	Total  153.8 181.5 218.2 217.8 221.2 238.9 231.7 216.2 225.3 223.6 224.2 241.5 243.6 220.8 198.6 231.4 245.8 233.9 228.0 239.0 243.9 238.7 234.6 234.9 231.3 250.0 246.1 241.4 249.3 228.1 220.3 230.1 228.6 228.4 231.6 230.8		15.8 19.1 25.1 25.3 25.4 25.6 25.6 25.6 25.1 26.7 27.9 24.6 21.1 21.5 20.5 24.3 24.4 25.6 20.5 21.8 20.4 21.3 21.6 19.7 21.9 19.7 21.9 19.4 18.4 19.3 25.1 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.6 20.4 21.3 21.0 23.0 23.0 23.0	### 122.7  ### 22.7  ### 26.7  ### 32.8  ### 34.3  ### 37.5  ### 38.8  ### 38.5  ### 38.5  ### 36.1  ### 39.1  ### 39.1  ### 39.1  ### 39.1  ### 39.1  ### 39.1  ### 40.5  ### 41.4  ### 43.0  ### 42.8  ### 42.1  ### 41.0  ### 42.8  ### 43.3  ### 44.1  ### 44.7  ### 47.2  ### 48.2  ### 48.2  ### 48.4  ### 51.7  ### 51.4  ### 52.3  ### 55.4.7
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	56.6 63.8 60.9 33.9 30.3 17.9 17.4 18.3 10.2 7.1 8.2 4.8 4.3 2.2 2.0 4.5 1.8	44.8 49.9 49.7 51.7 56.1 81.7 104.4 100.7 107.8 113.6 103.1 99.4 93.4 R 89.3 R 82.7 89.7	18.7 17.5 15.1 16.9 13.9 12.5 12.7 14.2 14.9 13.8 13.4 17.0 15.8 13.7 R 15.3	4.6 4.2 4.5 5.2 5.4 4.9 4.3 4.7 5.3 4.4 3.6 4.9 4.8 4.3 4.6 4.9	0.8 0.6 0.7 0.5 16.6 13.5 10.6 7.4 7.3 7.5 7.6 10.3 11.1 10.2 8.3	53.4 53.3 51.4 50.8 49.9 47.9 48.0 48.1 47.9 52.3 54.3 55.8 57.7 61.1 50.7 54.3	12.9 13.4 11.6 9.0 4.2 1.7 2.6 1.0 1.2 0.8 0.3 0.8 0.6 0.8	32.3 30.7 29.5 3.5 10.0 32.8 30.9 27.6 27.3 28.1 29.0 8 29.3 28.0 27.8 8 26.9 8 27.7 27.3	122.7 119.8 112.7 85.9 100.9 114.7 109.0 101.4 103.1 109.0 110.2 112.7 119.5 R 120.4 R 104.7 R 113.6 111.9	224.1 233.6 223.4 171.5 187.2 214.3 230.8 220.3 220.4 224.0 232.0 R 220.7 223.2 216.0 R 195.9 R 200.8 203.4	44.8 49.9 49.8 51.7 56.1 81.7 104.4 100.7 107.1 107.8 113.6 103.1 99.4 93.4 89.3 R 89.3 R 82.7 89.7	18.7 17.5 15.1 17.0 14.9 14.1 12.6 13.9 14.5 15.2 14.2 17.4 16.2 14.1 R 15.5	56.1 56.7 54.2 53.8 53.8 51.6 51.6 51.6 51.6 56.3 58.5 60.1 62.2 65.8 54.7 58.7

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Delaware (continued) (trillion Btu)

							Renewable en	nergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	0.0	5.0	NA	NA	NA	NA	5.0	0.0	NA	NA	5.0	R -5.0 R -6.6	0.0	R 153.7
1965 1970	0.0 0.0	0.0 0.0	5.6 7.0	NA NA	NA NA	NA NA	NA NA	5.6 7.0	0.0 0.0	NA NA	NA NA	5.6 7.0	R -11.3 R -9.1	0.0 0.0	R 180.5 R 213.9
1971	0.0	0.0	7.7	NA	NA	NA	NA	7.7	0.0	NA	NA	7.7	R -9.1	0.0	R 216.3 R 226.4
1972 1973	0.0 0.0	0.0 0.0	8.2 8.5	NA NA	NA NA	NA NA	NA NA	8.2 8.5	0.0 0.0	NA NA	NA NA	8.2 8.5	R -3.9 _R -7.1	0.0 0.0	R 240 3
1974	0.0	0.0	8.5	NA	NA	NA	NA	8.5	0.0	NA	NA	8.5	H_170	0.0	H 222.3
1975 1976	0.0 0.0	0.0 0.0	7.9 9.6	NA NA	NA NA	NA NA	NA NA	7.9 9.6	0.0 0.0	NA NA	NA NA	7.9 9.6	R -11.6 R -11.5	0.0 0.0	R 212.5 R 223.4
1977	0.0	0.0	10.2	NA	NA	NA	NA	10.2	0.0	NA	NA	10.2	R -11.5 R -10.6	0.0	R 223.2
1978 1979	0.0 0.0	0.0 0.0	10.7 8.7	NA NA	NA NA	NA NA	NA NA	10.7 8.7	0.0 0.0	NA NA	NA NA	10.7 8.7	R -14.1	0.0 0.0	R 220.7 R 239.0
1980	0.0	0.0	2.5 2.0	NA	NA	NA	NA	2.5 2.0	0.0	NA	NA	2.5 2.0	R -11.2 R -9.2	0.0	R 236.9 R 190.7
1981	0.0	0.0	2.0	(s) 0.0	NA	NA NA	0.0	2.0	0.0	NA	NA	2.0	H -32 1	0.0	R 190.7 R 181.2
1982 1983	0.0 0.0	0.0 0.0	3.2 2.2 2.9 3.0	0.0	NA NA	NA NA	0.0 0.0	3.2 2.2	0.0 0.0	NA NA	NA 0.0	3.2 2.2 2.9	R -20.6 R -41.9 R -34.5 R -27.5	0.0 0.0	H 191 7
1984	0.0	0.0	2.9	0.0	NA	NA	0.0	2.9	0.0	0.0	0.0	2.9	R -34.5	0.0	H 214.2
1985	0.0 0.0	0.0 0.0	3.0	0.0 0.0	NA NA	NA NA	0.0 0.0	3.0	0.0 0.0	0.0 0.0	0.0	3.0	n -27.5 R -10.8	0.0 0.0	R 209.4
1986 1987	0.0	0.0	2.8 2.2	0.0	NA	NA	0.0	2.8 2.2	0.0	0.0	0.0 0.0	2.8 2.2	R -19.8 R -18.9	0.0	R 211.0 R 222.3
1988 1989	0.0 0.0	0.0 0.0	2.3 2.4	0.0 0.0	NA NA	NA NA	0.0 0.0	2.3 2.4	0.0	0.0	0.0 0.0	2.3 2.5	R -16.8 R -5.7	0.0 0.0	R 229.4 R 235.5
1989	0.0	0.0	1.6	0.0	NA NA	NA NA	0.0	1.6	(s) 0.1	(s) (s)	0.0	2.5 1.7	R 14.9	0.0	R 251.2 R 254.5
1991	0.0	0.0	1.6	0.0	NA	NA	0.0	1.6	0.1	(s) (s)	0.0	1.7	R 14.9 R 17.8 R 27.3	0.0	R 254.5
1992 1993	0.0 0.0	0.0 0.0	1.7	0.0 0.0	NA NA	NA NA	0.0 0.0	1.7	0.1 0.1	(s) (s)	0.0	1.8 2.5	R 13.3	0.0 0.0	R 260.4 R 265.8
1994	0.0	0.0	2.4 2.3	0.0	NA	NA	0.0	2.4 2.3	0.1	(s)	0.0 0.0	2.5 2.4	R 13.3 R 12.5	0.0	H 261 0
1995 1996	0.0 0.0	0.0 0.0	2.4 2.5	0.0 0.0	NA NA	NA NA	0.0 0.0	2.4 2.5	0.1 0.1	(s)	0.0 0.0	2.5 2.6	R 18.3 R 19.7 R 40.7	0.0 0.0	R 262.2 R 271.6
1997	0.0	0.0	2.1	0.0	NA	NA	0.0	2.1	0.1	(s) (s)	0.0	2.2	R 40.7	0.0	H 271 0
1998	0.0 0.0	0.0 0.0	1.8	0.0	NA NA	NA NA	0.0	1.8	0.1	(s)	0.0	1.9	H // R R	0.0	R 271.0
1999 2000	0.0	0.0	1.9 2.2	0.0 0.0	NA NA	NA NA	0.0 0.0	1.9 2.2	0.1 0.1	(s) (s)	0.0 0.0	2.0 2.3	R 51.2 R 70.4	0.0 0.0	R 283.3 R 303.9
2001	0.0	0.0	1.2	0.0	(s)	NA	0.0	1.2	0.1	(s)	0.0	1.3	R 60.6 R 75.2	0.0	R 290.5 R 304.8
2002 2003	0.0 0.0	0.0 0.0	1.2 1.2	0.0 0.0	(s) (s)	NA NA	0.0 0.0	1.2 1.2	0.1 0.1	(s) (s)	0.0 0.0	1.3 1.4	R 67.9	0.0 0.0	H 300 8
2004	0.0	0.0	1.3	0.0	(s)	NA	0.0	1.3	0.2	(s)	0.0	1.4	Π E / Q	0.0	H 287.0
2005 2006	0.0 0.0	0.0 0.0	0.8 0.6	0.9	(s)	NA NA	0.0 0.0	1.7 3.4	0.2	(s)	0.0 0.0	1.9 3.6	H 55.2	0.0 0.0	R 297.8 R 285.7
2007	0.0	0.0	1.2	2.7 3.4	(s) (s)	NA NA	0.0	4.7	0.2 0.2	(s) (s)	0.0	5.0	R 55.2 R 58.0 R 53.0	0.0	H 291.5
2008	0.0	0.0	2.6	2.8	(s)	NA	0.0	5.4	0.3	(s)	0.0	5.8	R 59.5 R 77.6	0.0	R 288.6
2009 2010	0.0 0.0	0.0 0.0	3.1 3.3	3.0 3.9	(s) (s)	NA NA	0.0 0.0	6.2 7.2	0.4 0.4	0.1 0.1	0.0 (s)	6.6 R 7.7	R 68.0	0.0 0.0	R 255.7 R 262.9
2011	0.0	0.0	3.3	3.6	(s)	0.0	0.0	7.0	0.4	Rno	(s)	R76	R 59 0	0.0	H 280.9
2012 2013	0.0 0.0	0.0 0.0	2.5 2.3	3.5 3.7	(s) 0.2	0.0 0.0	0.0 0.0	6.1 6.1	0.4 0.4	R 0.2 R 0.4	(s) (s)	R 6.7 R 7.0	R 42.2 R 49.2	0.0 0.0	R 279.7 R 276.5
2013	0.0	0.0	2.6	3.7	0.2	0.0	0.0	6.4	0.4	R 0.5 R 0.5	(s)	R 7.3	H 48 6	0.0	H 276 2
2015	0.0	0.0	1.8	4.0	0.2	0.0	0.0	6.0	0.4	R 0.5	(s)	H70	H 49 1	0.0	R 280 1
2016 2017	0.0 0.0	0.0 0.0	1.5 1.4	4.2 4.3	0.3 0.3	0.0 0.0	0.0 0.0	6.0 6.1	0.4 0.4	R 0.4 R 0.5	(s) (s)	R 6.9 R 7.1	R 37.7 R 46.4	0.0 0.1	R 276.5 R 274.2
2018	0.0	0.0	1.4	4.4	0.2	0.0	0.0	6.1	0.4	HAR	(s)	H 7 1	n 62.2	(s)	H 292.5
2019 2020	0.0 0.0	0.0 0.0	1.5 <u>P</u> 1.3	4.8 4.0	0.2 0.2	0.0 0.0	0.0 0.0	6.4 P 5.5	0.4 0.4	R 0.6 R 0.7	(s)	R 7.5 R 6.6	R 67.8 R 61.0	0.0 0.0	R 291.3 R 263.5
2020	0.0	0.0	R 1.3	4.0	0.2	0.0	0.0	R 5.8	0.4	R 0.7	(S) (S)	R 6.9	R 73.1	0.0	R 280.8
2022	0.0	0.0	1.6	4.3	0.1	0.0	0.0	6.0	0.4	0.8	(s)	7.2	64.2	0.0	274.8

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Delaware

						Petroleum					Bion	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	54	6	2,704	1,007	2,144	4,314	6,207	5,175	21,551	0					1,720			_
970	43	23	4,002	2,255	2,062	6,247	5,051	4,592	24,208	0					4,585			-
980	188	23	3,529	3,199	1,573	6,614	6,886	4,307	26,108	0					5,819			-
990	237	28	3,408	1,043	1,306	8,012	1,814	5,553	21,136	0					8,284			-
2000	180	40	4,048	1,006	104	8,999	3,298	4,688	22,144	0					11,274			-
2005	117	34	3,380	1,401	167	10,530	1,982	5,791	23,252	0					12,137			-
2006 2007	102 104	34 35	3,142 2,976	1,249 1,124	144 113	10,827	1,923 1,869	5,285 5.025	22,571 22,142	0					11,555			_
2007	85	35	2,976	1,124	117	11,034 10,613	1,749	4,804	20,998	0					11,869 11,749			_
2008	22	39	2,825	1,383	80	10,578	1,749	4,604 580	16,801	0					11,749			_
2010	0	30	2,485	1,395	2,925	10,615	666	1,599	19,685	0					11,606			_
2011	ő	41	2,385	1,266	2,377	10,183	265	5,322	21,798	0					11,483			-
012	0	48	2,157	1,119	1,875	10,184	406	5,030	20,770	0					11,519			_
2013	0	54	2,225	1,213	1,299	10,225	157	4,498	19,617	0					11,348			-
2014	0	55	2,450	1,361	1,286	10,192	117	4,439	19,844	0					11,338			-
2015	0	57	2,590	1,389	1,325	11,136	66	4,562	21,068	0					11,498			-
016	102	54	2,395	1,145	1,339	11,564	158	R 4,602	21,201	0					11,258			-
017	0	54	2,383	935	1,817	11,887	27	R 4,649	R 21,698	0					11,129			-
018	0	59	2,793	1,279	1,952	12,299	19	R 4,446	R 22,788	0					11,773			-
2019	0	62 B 57	2,794	1,251	1,804	13,034	90	R 4,432	R 23,404	0					11,469			-
020	0	R 57 R 56	2,431 R 2,655	1,125	1,472	10,822	118	R 4,284 R 4,400	R 20,251 R 21,904	0					11,129			-
2021 2022	0	55	2,635	1,186 1,285	2,003 1,730	11,614 11,417	46 47	4,323	21,437	0					11,480 11,539			_
.022	0	- 33	2,033	1,200	1,730	11,417	47	4,323	· · · · · · · · · · · · · · · · · · ·						11,559			
									Trillion	Btu								
1960	1.3	6.0	15.8	3.8	11.5	22.7	39.0	30.9	123.6	0.0	5.0	NA	NA	NA	5.9	141.9	<sup>R</sup> 11.8	R 153.
970	1.0	23.1	23.3	8.3	11.1	32.8	31.8	27.8	135.1	0.0	7.0	NA	NA	NA	15.6	181.9	R 32.0	R 213.
980	4.6	23.5	20.6	11.4	8.4	34.7	43.3	25.8	144.2	0.0	2.5	NA	NA	NA	19.9	194.6	R 42.2	R 236
990	5.9	28.6	19.9	3.9	7.0	42.1	11.4	33.6	117.9	0.0	1.6		0.1	(s)	28.3	_ 179.1	R 72.1	R 251
2000	4.7	41.7	23.6	3.8	0.6	46.8	20.7	28.3	123.8	0.0	2.0		0.1	(s)	38.5	R 210.7	R 93.1	R 303
2005	3.1	35.3	19.7	5.2	0.9	54.7	12.5	35.3	128.3	0.0	0.8			(s)	41.4	209.0	R 88.8	R 297
2006	2.7	34.9	18.2	4.6	0.8	56.1	12.1	32.3	124.2	0.0	0.6		0.2	(s)	39.4	202.1	R 83.6	R 285
007	2.7	36.0	17.2	4.2	0.6	56.7	11.8	30.7	121.2	0.0	0.7			(s)	40.5		R 90.1 R 92.6	R 291 R 288
008 009	2.2 0.6	38.2 40.4	14.6 16.3	4.5 5.2	0.7 0.5	54.2 53.8	11.0 8.5	29.5 3.5	114.5 87.9	0.0	0.8 1.5		0.3 0.4	(s) 0.1	40.1 38.4	196.1 169.2	R 86.5	R 255
010	0.6	40.4 31.2	16.3	5.2 5.4	16.6	53.8	8.5 4.2	10.0	104.3	0.0	1.5			0.1	38.4 39.6		R 85.8	R 263
011	0.0	41.9	13.8	4.9	13.5	51.6	1.7	32.8	118.1	0.0	1.6		0.4	R 0.1	39.0		R 79.7	R 281
012	0.0	49.8	12.4	4.3	10.6	51.6	2.6	30.9	112.4	0.0	1.3		0.4	R 0.2	39.3		R 76.5	R 279
013	0.0	57.0	12.8	4.7	7.4	51.7	1.0	27.6	105.1	0.0	1.7			R 0.2	38.7	R 203.2	R 73.4	R 276
014	0.0	58.3	14.1	5.2	7.3	51.6	0.7	27.3	106.2	0.0	1.9		0.4	R 0.3	38.7	R 205.8	R 70.6	R 276
015	0.0	60.3	14.9	5.3	7.5	56.3	0.4	28.1	112.6	0.0	1.1	0.0	0.4	R <sub>0.3</sub>	39.2	R 214.0	R 66.2	R 280
016	2.3	57.2	13.8	4.4	7.6	58.5	1.0	29.0	114.3	0.0	0.9		0.4	R <sub>0.3</sub>	38.4	R 213.9	R 62.8	R 276
017	0.0	56.6	13.7	3.6	10.3	60.1	0.2	R 29.3	R 117.2	0.0	0.9			R <sub>0.4</sub>	38.0	R 213.4	R 60.9	R 274
018	0.0	61.8	16.1	4.9	11.1	62.2	0.1	28.0	R 122.4	0.0	0.9		0.4	R 0.4	40.2	R 226.1	R 66.6	R 292
019	0.0	64.3	16.1	4.8	10.2	65.8	0.6	27.8	R 125.4	0.0	_ 0.9			H 0.5	39.1	R 230.7	R 60.9	R 291
020	0.0	R 58.9	14.0	4.3	8.3	54.7	0.7	R 26.9	R 109.0	0.0	R 0.7	0.0	0.4	R 0.5		H 207.5	R 56.3	R 263
021	0.0	R 57.9	R 15.3	4.6	11.4	58.7	0.3	R 27.7	R 117.9	0.0	R 0.7	0.0	0.4	R 0.5	39.2		R 64.4	R 280.
2022	0.0	56.9	15.2	4.9	9.8	57.6	0.3	27.3	115.2	0.0	0.9	0.0	0.4	0.6	39.4	213.4	61.5	274.

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Delaware

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	12	4	1,485	149	807	2,441				496			
1965 1970	12 7	6	1,651 2,037	245 353	604 365	2,500 2,755				729			
1970	4	8	2,037	353	365	2,755				1,169			
1975 1980 1985	1	7	1.866	335	215 275 649	2 415				1.640			
1980	1	7	1,316	318 503	275	1,909 2,638				1,866 1,924			
1985	1	6	1,486	503	649	2,638				1,924			
1990	. 4	7	1,149	487	144	1,780				2,651 3,168			
1995	(s)	9	1,113	730	120	1,963				3,168			
2000	(s)	9	1,138 908 707	624	131	1,893				3,575			
2005 2006	, 0	10 9	908	759 599	134 108	1,800 1,414				4,594 4,259			
2006	(s)		707	599	108	1,414				4,259			
2007	(s)	10 10	638	702	49	1,388				4,470			
2008 2009	0	10	500	738 870	25	1,343 1,517				4,420			
2010	0	10	580 595 575	1,000	25 53 40	1,615				4,428 4,335 4,760			
2011	0	10	161	826	25	1,314				4,700			
2012	0	9	464 363	826 675	11	1,048				4,632 4,522			
2013	0	10	431	756	11	1,198				4,570			
2014	Ô	iĭ	466	861	18	1.346				4 645			
2014 2015	ŏ	ii	466 488	861 840	18 13	1,346 1,342				4,645 4,849			
2016	0	10	356	601	14	971				4.763			
2017	Ö	10	356 306	597	7	911				4,663			
2018	0	12	433 429	748	8	1,189				5,070			
2019	0	12	429	679	8	1,116				5.004			
2020	0	11	314	568 625	8	890				4,991			
2021	0	12	416	625	10	1,051				5,170			
2022	0	12	427	737	9	1,173				5,210			
							Trillion Btu						
1960	0.3	3.9	8.6	0.6	4.6	13.8	1.5	NA	NA	1.7	21.3	R 3.4 R 4.9	R 24.7 R 28.6 R 36.6 R 38.8
1965	0.2	5.9	9.6	0.9	3.4	14.0	1.2	NA	NA	2.5	23.7	R 4.9	R 28.6
1965 1970 1975	0.1	8.0	11.9	1.4 1.3	2.1	15.3	1.1	NA	NA	4.0	28.5 27.3	R 8.2	H 36.6
1975	(s)	7.1	10.9	1.3	1.2	13.4	1.3	NA	NA	5.6	27.3	R 11.4	H 38.8
1980	(s)	7.1	7.7	1.2	1.6	10.4	2.4 2.9 1.2	NA	NA	6.4	26.4	R 13.5	R 39.9 R 43.5 R 49.4 R 54.8 R 62.9 R 69.7
1985 1990	(s)	6.3 7.3 8.8	8.7	1.9	3.7	14.3	2.9	NA	ŅĄ	6.6	30.2	n 13.3	<sup>n</sup> 43.5
1990	0.1	7.3	6.7	1.9 2.8	0.8	9.4	1.2	0.1	(s) (s)	9.0	26.3	n 23.1	P 49.4
1995	(s)	8.8 9.9	6.5	2.8	0.7 0.7	10.0 9.8	1.8 1.4	0.1		10.8 12.2	31.5 33.3	R 23.3	11 54.8 B co.o
2000 2005	(s) 0.0	10.7	6.6 5.3	2.4 2.9	0.7	9.0	0.6	0.1	(s)	15.7	36.1	H 29.5	62.9 B 60.7
2005	(s)	9.4	5.3 4.1	2.9	0.6	9.0	0.6	0.2 0.2 0.2 0.2 0.3	(s) (s)	10.7	31.7	H 20.0	H 69.7
2000	(s)	10.4	4.1 3.7 3.4	2.3 2.7	0.8	7.0 6.7	0.5 0.6 0.6	0.2	(s)	14.5 15.3	33.1	R 33 a	R 62.5 R 67.1 R 67.5
2007 2008	0.0	10.4	3.7	2.8	0.5	6.3	0.0	0.2	(8)	15.1	32.6	R 34 a	R 67.5
2000	0.0	10.4	3.4	3.3	0.3	7.1	1.3	0.4	R (s)	14.8	33.9	R 33 3	R 67.3
2009 2010	0.0	10.4	3.3	3.8	0.2	7.1 7.4	1.4	0.4	R (s)	16.2	35.9	R 35.2	R 67.3 R 71.1
2011	0.0	10.3	2.7	3,2	0.1	6.0	1.4	0.4	0.1	15.8	35.9 R 33.9	R 13.3 R 23.1 R 23.3 R 29.5 R 33.6 R 30.8 R 34.9 R 34.9 R 35.2 R 32.1 R 30.0 R 29.5 R 28.9 R 27.9 R 26.6 R 25.5 R 26.6 R 25.6 R 26.6 R 26.6 R 25.6 R 26.6	R 66.1 R 60.6 R 63.2
2012	0.0	8.8	2.7 2.1	2.6	0.1	6.0 4.7	1.4 1.1	0.4	0.1	15.4	R 30.6	R 30.0	R 60.6
2013	0.0	10.7	2.5	3.2 2.6 2.9	0.1	5.4	1.5	0.4	R 0.1 R 0.1	15.6	R 30.6 R 33.7 R 35.9 R 35.9 R 32.1 R 31.7	R 29.5	R 63.2
2014	0.0	11.9	2.7	3.3	0.1	6.1	1.5	0.4	R 0.1	15.8	R 35.9	R 28.9	R 64.8 R 63.9 R 58.7 R 57.2
2015	0.0	11.9	2.8	3.2 2.3	0.1	6.1	0.9	0.4	R 0.1 R 0.2	16.5 16.3	R 35.9	H 27.9	R 63.9
2016	0.0	10.2	2.1	2.3	0.1	4.4	0.7	0.4	H 0.2	16.3	H 32.1	H 26.6	H 58.7
2017	0.0	10.4	1.8	2.3	(s)	4.1	0.6	0.4	R 0.2	15.9	H 31.7	H 25.5	H 57.2
2018 2019	0.0	12.6	2.5	2.9	(s)	5.4	0.6	0.4	R 0.3	17.3	R 36.6 R 35.8	<sup>ri</sup> 28.7	R 65.3 R 62.3
2019	0.0	12.1	2.5	2.6	(s)	5.1	0.7	0.4	n 0.3	17.1	n 35.8	n 26.6	n 62.3
2020 2021	0.0	11.3	1.8	2.2	(s) 0.1	4.0	n 0.4	0.4	R 0.3 R 0.3 R 0.4	17.0	R 33.5 R 35.6	n 25.2	<sup>n</sup> 58.8
2021	0.0 0.0	12.0 12.3	2.4 2.5	2.2 2.4 2.8	0.1 (s)	4.0 4.9 5.3	R 0.4 R 0.4 0.5	0.4 0.4	0.4	17.6 17.8	36.8	27.8	R 58.8 R 64.6 64.6

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Delaware

						Pet	roleum			Hydro-	Biomass						
		Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
. 1	/ear	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
19	60	8	1	572	58	114	13	1,812	2,568	NA			NA	361			
19	65	6	1	636	94	85	11	2,081	2.908	NA			NA	536			
19 <sup>1</sup>		3	3	785 719	136 129	51 30	24 32	1,736 1,204	2,733 2,114	NA NA			NA NA	889 1,333			
19	80	3	3	634 373	123 194	9	32 45 38	4,265 70	5,076	NA			NA	1,514			
19 19	90	18	4	401	187	51 10	35	178	727 812	NA 0			NA (s)	1,698 2,361			
19: 20:		1	6 5	282 274	281 240	2 136	8 12	131 226	704 888	0			(s) (s)	2,900 4,099			
20	05	0	8	238	296	15	10	178	738	Ö			`1	4,238			
20		(s) (s)	8 9	283 239	272 203	27 11	7 7	164 107	752 566	0			2 2	4,196 4,321			
20	08	0	9	190	270	5	7	13	485	Ŏ			2	4,339			
20	09 10	0	12 12	270 221	335 289	1 2	7 7	(s) 0	613 518	0			3 4	4,185 4,320		 	
20	11	Ö	10	183	269	2	7	0	461	Ö			19	4,260			
20		0	10 11	185 177	277 279	1	6 7	0	470 464	0			24 42	4,243 4,158			
20	14	0	12	232	315	3 2	6	(s)	556	0			42 54	4,197			
20		0	12 12	288 203	349 283	2	231 234	1	871 723	0			55 25	4,219 4,235			
20 20	17	0	13 16	165	193	1 2	237 239	1	598 734	0		==	30 32 35	4,185 4,342		==	
20	19	0	16	228 175	265 273	2	241	0	691	0			35	4,421			
20:	20	0	R 10 R 11	129 199	202 171	2	243 245	0	576 617	0			32 31	4,082 4,196			
20	22	0	11	201	225	1	254 254	(s) (s)	682	0			34	4,299			
									Tril	lion Btu							
19	60	0.2 0.1	0.6	3.3	0.2	0.6	0.1	11.4	15.7	NA	(s)	NA	NA	1.2 1.8	17.7	R 2.5 R 3.6	R 20.2 R 24.6
19 19	65 70	0.1 0.1	1.4 2.9	3.7 4.6	0.4 0.5	0.5 0.3	0.1 0.1	13.1 10.9	17.7 16.4	NA NA	(s) (s)	NA NA	NA NA	1.8 3.0	21.0 22.4	R62	H 28.6
19 <sup>1</sup>	75	0.1 0.1	2.9 3.0 3.4	4.6 4.2 3.7	0.5 0.5	0.2 0.1	0.2 0.2	7.6 26.8	12.6 31.3	NA NA	(s) 0.1	NA NA	NA NA	4.5 5.2	20.2 39.9	R 9.3 R 11.0	R 29.5 R 50.9
19	85	0.1	3.4	2.2	0.5	0.1	0.2	0.4	3.9	NA NA	0.1	NA NA	NA NA	5.2	13.3	R 11 Ω	R 25 1
19: 19:	90	0.4 (s)	4.1 5.9	2.3 1.6	0.7 1.1	0.1	0.2 (s)	1.1 0.8	4.4 3.6	0.0 0.0	0.1 0.2	0.0 0.0	(s) (s)	8.1 9.9	16.7 19.7	R 20.6 R 21.3 R 33.9	R 37.2 R 41.0
20	00	(s)	5.3	1.6	0.9	(s) 0.8	0.1	1.4	4.8	0.0	0.2	0.0	(s)	14.0	24.3	R 33.9	R 58.2
20 20	05 06	0.0 (s)	8.7 8.4	1.4 1.6	1.1 1.0	0.1 0.2	0.1 (s)	1.1 1.0	3.8 3.9	0.0 0.0	0.1 0.1	0.0 0.0	(s) (s)	14.5 14.3	27.0 26.8	H 31 0	R 58.0 P 57.1
20	07	(s) 0.0	9.0	1.4	0.8	0.1	(s)	0.7	2.9	0.0	0.1	0.0	(s)	14.7	26.7	R 30.4 R 32.8 R 34.2	R 59 5
20 20		0.0 0.0	9.2 12.1	1.1 1.6	1.0 1.3	(s) (s)	(s) (s)	0.1 (s)	2.3 2.9	0.0 0.0	0.1 0.2	0.0 0.0	(s) (s)	14.8 14.3	R 26.3 29.4	H 32 2	R 60.5 R 61.6
20	10	0.0	12.5	1.3	1.1	(s)	(s)	(s) 0.0	2.4	0.0	0.2	0.0	(s)	14.7	29.9	H 32.0	R 61.8
20	11 12	0.0 0.0	10.8 10.3	1.1 1.1	1.0 1.1	(s)	(s)	0.0 0.0	2.1 2.2	0.0 0.0	0.2 0.2	0.0 0.0	R 0.1 R 0.1	14.5 14.5	R 27.7 R 27.2	R 29.6 R 28.2	R 57.3 R 55.4
20	13	0.0	11.7	1.0	1.1	(s)	(s)	0.0	2.1	0.0	0.2	0.0	™ 0.1	14.2	Rogg	н 26.9	R 55.2
20		0.0 0.0	12.5 12.3	1.3 1.7	1.2 1.3	(s) (s)	(s) 1.2	(s) (s)	2.6 4.2	0.0 0.0	0.2 0.1	0.0 0.0	R 0.2 R 0.2	14.3 14.4	R 29.8 R 31.3	R 26.1 R 24.3	R 56.0 R 55.5
20	16	0.0	13.0	1.2	1.1	(s)	1.2	(s)	3.5	0.0	0.1	0.0	R 0.1 R 0.1	14.5	R 31.1 R 31.4	R 23.6 R 22.9	R 54.7 R 54.3
20 20	18	0.0 0.0	14.0 16.3	0.9 1.3	0.7 1.0	(s) (s)	1.2 1.2	(s) 0.0	2.9 3.5	0.0 0.0	0.1 0.1	0.0 0.0	R 0.1	14.3 14.8	R 34 9	H 24 6	R 59.4
20		0.0 0.0	16.3 E 10.7	1.0	1.0	(s)	1.2	0.0	3.3 2.8	0.0 0.0	0.1	0.0	R 0.1 R 0.1	15.1	R 34.9 R 27.6	R 23.5 R 20.6	R 58.3 R 48.2
20	21	0.0	R 11.0	0.7 1.1	0.8 0.7	(S) (S)	1.2 1.2	0.0 (s)	3.1	0.0	0.1 0.1	0.0 0.0	R 0.1	13.9 14.3	R 28.6	H 23.5	H 52.1
20		0.0	11.3	1.2	0.9	(s)	1.3	(s)	3.3	0.0	0.1	0.0	0.1	14.7	29.5	22.9	52.4
_																	

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Delaware

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total <sup>f,k</sup>
1960	32	1	482 715	798	205	2,931	4,161	8,577	0				NA	863			
1965	32 35	6	715	1,165	144	2,931 2,785	4,161 5,130	9,939	0				NA NA	1,373			
1970 1975	35 27	12 7	794 1,079	1,753 2,154	92 63	2,643 1,878	4,088 4,313	9,370 9,488	0				NA NA				
1980	184	13	616	2.744	35	1.808	3,949	9.152	Ö				NA	2.439			
1985 1990	217 215	22 17	473 516	293 363	54 48	649 736	3,260 5,256	4,729 6,919	0				NA (s)	2,693 3,272			
1995	194	19	339	346	64	1,570	4,972	7,291	ő			==	(s)	3,511			
2000	179	25	485	140	58	1,437	4,334	6,455	0				(s)	3,601			
2005 2006	117 102	15 16	573 470	342 374	102 114	714 609	5,449 4,956	7,181 6,522	0				(S)	3,305 3,100			
2007	103	16	439	218	193	519	4,771	6,141	0				(s)	3,078			
2008	85	18	311	174	142	487	4,616	5,730	0				(s)	2,982			
2009 2010	22	17 8	552 285	175 103	137 168	343 354	381 1,442	1,588 2,352	0				(S)	2,738 2,526			
2011	ő	20	294	169	169	260	5,188	6,080	ő				1	2 591			
2012	0	29 32	229 220	163	165 170	173	4,917	5,648	0				2	2,755			
2013 2014	0	32	220 275	176 180	162	76 0	4,389 4,293	5,031 4,910	0				3	2,620 2,496			
2015	Ö	33	327	191	138	1	4,475	5,132	ŏ				4	2,430			
2016	102	31	273	225 96	140	(s)	4,515	5,153 R 5,055	0				4	2,260			
2017 2018	0	30 31	243 247	204	141 145	1	R 4,573 R 4,367	R 4,963	0				5	2,281 2,361			
2019	ŏ	34	309	238	141	Ö	H 4 351	R 5.039	ŏ					2,044			
2020	0	35	247	289	142	0	R 4,217 R 4,313	R 4,895 R 5,058	0				11				
2021 2022	0	33 31	277 280	335 232	133 146	(s) (s)	4,237	4,895	0				12 12	2,113 2,030			
						· · ·			Trillion Bt	u							
1960	0.8	1.5	2.8	3.0	1.1	18.4	25.1	50.5	0.0		NA	NA	NA	2.9	59.2	R 5.9	R 65.1 R 83.8 R 98.3 R 89.2
1965 1970	0.9 0.8	6.6 12.3	4.2 4.6	4.4 6.4	0.8 0.5	17.5 16.6	31.1 24.9	58.0 53.0	0.0 0.0	4.4 5.9	NA NA	NA NA	NA NA	4.7 8.6	74.6 80.7	R 9.2 R 17.7	n 83.8
1975	0.6	7.1	6.3	7.6	0.3	11.8	26.3	52.3	0.0	6.6	NA	NA	NA NA	7.4	74.0	R 15.2	R 89.2
1980	4.5	13.1	3.6	9.7	0.2	11.4	23.7	48.5	0.0	0.0	NA	NA	NA		74.4	H 17.7	n 92.1
1985 1990	5.4 5.3	22.1 17.2	2.8 3.0	1.0 1.3	0.3 0.3	4.1 4.6	20.5 32.0	28.6 41.1	0.0 0.0	0.0 0.2	0.0 0.0	NA 0.0	NA (s)	9.2 11.2	65.2 73.1	R 18.7 R 28.5	R 83.9 R 101.6
1995	4.9	20.1	2.0	1.2	0.3	9.9	30.0	43.4	0.0		0.0	0.0	(s)	12.0	80.7	R 25.8	R 106.5
2000	4.7	26.4	2.8	0.5	0.3	9.0	26.3	39.0	0.0	0.4	0.0	0.0	(s)	12.3	82.6	R 25.8 R 29.7 R 24.2	R 106.5 R 112.4 R 97.4
2005 2006	3.1 2.7	15.8 17.0	3.3 2.7	1.2 1.3	0.5 0.6	4.5 3.8	33.4 30.5	42.9 38.9	0.0 0.0	0.1 (s)	0.0 0.0	0.0 0.0	(S)	11.3 10.6	73.2 69.2	R 22.4	R 91.6
2007	2.7	16.6	2.5	0.7	1.0	3.3	29.3	36.8	0.0	(s)	0.0	0.0	(s)	10.5	66.7	R 22.4 R 23.4	R 90.1
2008	2.2	18.8	1.8	0.6	0.7	3.1	28.5	34.7	0.0		0.0	0.0	(s)	10.2	65.9	H 23 5	R 89.4
2009 2010	0.6 0.0	18.0 8.2	3.2 1.6	0.6 0.4	0.7 0.8	2.2 2.2	2.5 9.1	9.1 14.2	0.0	(s) (s)	0.0 0.0	0.0	(S)	9.3 8.6	37.0 31.1	R 21.0 R 18.7	R 58.0 R 49.8
2011	0.0	20.3	1.7	0.6	0.9	1.6	32.0	36.9	0.0	(s)	0.0	0.0	(s)	8.8	66.1	H 18 0	R 84.1
2012	0.0	29.6	1.3	0.6	0.8	1.1	30.3	34.2	0.0	(s)	0.0	0.0	(s)	9.4	73.2	R 18.3 R 16.9	R 91.5 R 89.8
2013 2014	0.0	33.7 32.7	1.3 1.6	0.7 0.7	0.9 0.8	0.5 0.0	26.9 26.4	30.2 29.5	0.0	(s) 0.2	0.0 0.0	0.0	(s)	8.9 8.5	72.9 71.0	R 15.5	R 86.5
2015	0.0	34.9	1.9	0.7	0.7	(s)	27.6	30.9	0.0	0.1	0.0	0.0	(s)	8.3	74.2	R 15.5 R 14.0	R 86.5 R 88.2 R 87.5
2016 2017	2.3 0.0	33.1 31.3	1.6	0.9 0.4	0.7	(s) (s) (s) 0.0	28.5 R 28.9	31.7 31.3	0.0	0.1	0.0 0.0	0.0 0.0	(s)	7.7	R 74.9 70.6	R 12.6 R 12.5	H 87.5
2017	0.0	31.3	1.4 1.4	0.4	0.7 0.7	(S) ( 0 )	n 27 6	30.5	0.0 0.0	0.2 0.2	0.0	0.0	R (s)	7.8 8.1	70.0	H 13 4	R 83.1 R 84.3
2019	0.0	35.3	1.8	0.9	0.7	0.0	R 27 /	R 30 8	0.0	0.2	0.0	0.0	H (e)	7.0	R 73.3	R 10.9	H 84 1
2020 2021	0.0 0.0	36.3 R 34.1	1.4 1.6	1.1 1.3	0.7 0.7	0.0	R 26.5 R 27.2	R 29.7 R 30.8	0.0 0.0	0.2 0.2	0.0 0.0	0.0 0.0	R (s) R (s)	7.0 7.2	73.3 72.4	R 10.4 R 11.8	R 83.7 R 84.2
2021	0.0	32.4	1.6	0.9	0.7	(s) (s)	26.8	30.8	0.0		0.0	0.0	(s)	6.9	69.7	10.8	80.6
	2.0					(3)			3.0				(0)	3.0		. 3.0	

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Delaware

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	1	0	19	166	2	2,144	74	4,096	1,464	7,965	0			
1965	(s) (s)	Ō	150	256	3	2,086	71	4.921	589	8.076	Ō			
1970 1975	(S)	0	20 15	385 510	13 36 14	2,062 1,654	67 52 64	6,131 6,973	671 961	9,350 10,201	0		 	
1980	(s) 0	ő	10	963	14	1.573	64	6.533	812	9.970	ő			
1985 1990	0	(s)	16 78	1,264 1,342	5 6	1,569 1,306	58	7,464 7,929	232 900	10,608 11,625	0			
1990	0	(S) (S)	76 53	1,493	5	76	58 65 62 66 56 55 56 52 47	7,929 8,398	1.030	11,025	0		 	
2000	ő	(s)	20	2,151	2	104 167	66	8,928	1,635 1,090	12,908	Ö			
2005 2006	0	(s)	136 140	1,662 1,683	4 4	167 144	56	10,418 10,706	1,090	13,533 13,882	0		 	
2006	0	(S) (S)	138	1,660	2	113	56	10,706	1,150 1,243	14,047	0			
2008	Ó	(s)	105 98	1,438	13	117	52	10,465	1,249	13,440	Ō			
2009 2010	0	(s) (s)	98 55	1,409 1,404	3 2	80 2,925	47 61	10,434 10,441	1,012 312	13,083 15,200	0			
2011	0	(s)	55 52 48	1,444 1,380	2	2,377	55	10,007	5	13,943	0			
2012	0		48	1,380	3	1,875	55 53	10,012	233	13.604	0			
2013 2014	0	1	42 68	1,398 1,477	3 5	1,299 1,286	54 57	10,048 10,023	81 116	12,925 13,033	0			
2015	ŏ	i	8	1.487	8	1.325	64	10,767	65	13 724	ŏ			
2016	0	1	8	1,562	36	1,339	63 59	11,190	65 157 25	14,354 R 15,135	0			
2017 2018	0	1	9 10	1,668 1,885	48 62	1,817 1,952	59 59	11,508 11,915	25 19	15,135	0			
2019	ŏ	i	10	1,885 1,881	62 61	1,804	59 R 60	12,652	19 90	15,902 R 16,558	Ö			
2020 2021	0	1	7 8	1,742 B 1 762	65 55	1,472 2,003	50 R 52	10,437 11,235	118 46	13,891 R 15,178	0			
2021	0	1	8	1,742 R 1,763 1,727	90	1,730	54	11,017	47	14,687	0			
							Tri	llion Btu						
1960	(s)	0.0	0.1	1.0	(s)	11.5	0.5	21.5	9.2	43.7	0.0	43.7	0.0	43.7
1965 1970	(s) (s)	0.0 0.0	0.8 0.1	1.5 2.2	(s) (s) 0.1	11.2 11.1	0.4 0.4	25.8 32.2	3.7 4.2	43.4 50.3	0.0 0.0	43.4 50.3	0.0 0.0	43.4 50.3
1975	(s)	0.0	0.1	3.0	0.1	8.9	0.4	36.6	6.0	55.0	0.0	55.0	0.0	55.0
1980 1985	0.0 0.0	0.0	0.1	5.6 7.4	0.1	8.4 8.4	0.4	34.3 39.2	5.1	54.0	0.0	54.0	0.0 0.0	54.0 56.9
1985 1990	0.0	(s)	0.1 0.4	7.4 7.8	(s)	8.4 7.0	0.4 0.4	39.2 41.6	1.5 5.7	56.9 63.0	0.0 0.0	56.9 63.0	0.0	56.9 63.0
1995	0.0	(s) (s)	0.4	7.8 8.7 12.5	(s) (s)	0.4	0.4	41.6 43.7	5.7 6.5	60.0	0.0	60.0	0.0	60.0
2000	0.0	0.1	0.1	12.5	(s)	0.6	0.4	46 4	10.3	70.3	0.0	70.4	0.0	70.4
2005 2006	0.0 0.0	0.1 (s)	0.7 0.7	9.7 9.8	(s) (s)	0.9 0.8	0.3 0.3	54.1 55.5 55.7	6.9 7.2	72.6 74.4	0.0 0.0	72.7 74.4	0.0 0.0	72.7 74.4
2007	0.0	(s)	0.7	9.6	(s) 0.1	0.6	0.3	55.7	7.8	74.8	0.0	74.9	0.0	74.9
2008 2009	0.0	(s)	0.5	8.3		0.7	0.3 0.3	53.4	7.9 6.4	71.2 68.9	0.0	71.2	0.0	71.2 68.9
2009	0.0 0.0	(s) 0.1	0.5 0.3	8.1 8.1	(s) (s)	0.5 16.6	0.3	53.1 52.9	2.0	80.2	0.0 0.0	68.9 80.4	0.0 0.0	80.4
2011	0.0	0.5	0.3	8.3	(s)	13.5	0.3	50.7	(s)	73.1	0.0	73.6	0.0	73.6
2012 2013	0.0 0.0	1.1 1.0	0.2 0.2	8.0 8.1	(s) (s)	10.6 7.4	0.3 0.3	50.7 50.8	(s) 1.5 0.5	71.3 67.3	0.0 0.0	72.4 68.3	0.0 0.0	72.4 68.3
2014	0.0	1.1	0.3	8.5 8.6		7.3	0.3 0.4	50.7 54.4	0.5 0.7 0.4	68.0 71.4	0.0	69.1 72.6	0.0	69.1
2015	0.0	1.1 1.2	(s) (s) (s) 0.1	8.6	(s) (s)	7.3 7.5	0.4	54.4	0.4	71.4	0.0	72.6	0.0	69.1 72.6
2016 2017	0.0 0.0	1.0 0.9	(S)	9.0 9.6	0.1 0.2	7.6 10.3	0.4 0.4	56.6 58.1	1.0 0.2	74.7 78.8	0.0 0.0	75.7 79.7	0.0 0.0	75.7 79.7
2018	0.0	0.8	0.1	10.9	0.2	11.1	0.4	60.2	0.2 0.1	82.9	0.0	83.7	0.0	83.7
2019	0.0	0.6	0.1	10.8	0.2	10.2	0.4	63.9	0.6	86.2	0.0	86.8	0.0	86.8
2020 2021	0.0 0.0	0.6 0.7	(s) (s) (s)	10.0 R 10.2	0.2 0.2	8.3 11.4	0.3 0.3	52.7 56.7	0.7 0.3	72.4 R 79.2	0.0 0.0	73.0 R 79.9	0.0 0.0	73.0 R 79.9
2022	0.0	0.9	(s)	10.0	0.3	9.8	0.3	55.6	0.3	76.5	0.0	77.4	0.0	77.4

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Delaware

				Petro	leum		Nuclear		Biomass				Electricity	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	net imports h	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	lowatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	737	3	8	0	40 84	48	0	0		0	NA	NA	0	
1965 1970	1,055 1,497	5	17 307	0 1,240	84 1,537	100 3,084	0	0		0	NA NA	NA NA	0	
1975	905 942	2	135 187	237	6,176	6,547	0	0		0	NA NA	NA NA	0	
1980	942	7	187	470	5.831	6,488	0	0		0	NA	NA	0	
1985 1990	2,543 2,056	7	101 110	351 1,410	2,650 1,991	3,102 3,510	0	0		0	0	0	0	
1995	1.816	11 27	160	1,410	1.335	1.495	0	0		0	0	0	0	
2000 2005	1,755 2,208	8	261 96 74 57 87	0	872	1,133 1,290	Ō	0		0	0	Ō	0	
2005 2006	2,208 2,189	13 10	96 74	0	1,193	1,290 196	0	0		0	0	0	0	
2007	2,169	13	57	0	123 265	322	0	0		0	0	0	0	
2008	2,391	11	87	0	93	179	0	0		0	0	0	0	
2009 2010	1,352 1,230	11 24	114 97	0	73 6	187 104	0	0		0	0	0	0	
2011	717	39	52	0	12	64	0	0		0	8	0	0	
2012	682	53	52 35 26	Ó	11	46	Ō	Ō		0	23 45	Ō	Ō	
2013 2014	708 397	41 46	26 71	0	9 69	34 140	0	0		0	45 48	0	0	
2015	276	45	56	0	64	120	0	0		0	47	0	0	
2016	227	45 54 45 36 28	79 25	0	18	96	Ō	0		0	50	Ō	0	
2017 2018	186 167	45	25	0	25 108	51	0	0		0	49 49	0	18 3	
2018	85	28	226 22	0	13	334 35	0	0		0	53	0	0	
2020	76 172	29 24	16	Ö	6	22	Ö	Ö		Ö	54	Ö	0	
2021 2022	172 70	24 32	36 157	0	6 48	42 205	0	0		0	56 61	0	0	
							Trillion Btu							
1960 1965	19.1 27.8	3.3 4.8	(s) 0.1	0.0	0.2	0.3	0.0	0.0	0.0	0.0	NA	NA	0.0 0.0	22.7 33.3
1965	27.8 36.2	4.8 3.8	1.8	0.0 7.5	0.5 9.7	0.6 18.9	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	33.3 59.0
1975	36.2 22.2	1.8	0.8	1.4	38.8	41.0	0.0	0.0	0.0	0.0	NA	NA	0.0	59.0 65.1
1980 1985	23.5 65.9 53.6 47.5	7.3 7.5	1.1 0.6	2.8 2.1	36.7 16.7	40.6 19.4	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0	0.0 0.0	71.3 92.8 85.5
1990	53.6	11.5	0.6	8.5	12.5	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.6 85.5
1995	47.5	27.9	0.9	0.0	8.4	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.7
2000 2005	45.5 53.6	8.5 13.4	1.5 0.6	0.0 0.0	5.5 7.5	7.0 8.1	0.0 0.0	0.0 0.0	0.2 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	61.2 75.0
2006	53.9	9.9	0.4	0.0	0.8	1.2	0.0	0.0	(s)	0.0	0.0	0.0	0.0	65.0
2007	53.9 61.1	14.0	0.3 0.5	0.0	1.7	2.0	0.0	0.0	(s) 0.5	0.0	0.0	0.0	0.0	65.0 77.6
2008 2009	58.7 33.4	11.6	0.5 0.7	0.0 0.0	0.6 0.5	1.1 1.1	0.0 0.0	0.0 0.0	1.8 1.6	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	73.2 47.4
2010	33.4 30.3	11.3 24.9	0.6	0.0	(s)	0.6	0.0	0.0	1.7	0.0	0.0 R (s)	(s)	0.0	47.4 57.4
2011	17.9	39.8	0.3	0.0	0.1	0.4	0.0	0.0	1.8	0.0	R <sub>(s)</sub>	0.0	0.0	59 9
2012 2013	17.4 18.3	54.7 43.6	0.2 0.1	0.0 0.0	0.1 0.1	0.3 0.2	0.0 0.0	0.0 0.0	1.2 0.6	0.0 0.0	R 0.1 R 0.2	0.0 0.0	0.0 0.0	R 73.6 R 62.9
2013	10.2	48.7	0.4	0.0	0.4	0.8	0.0	0.0	0.7	0.0	R 0.2 R 0.2	0.0	0.0	H 60.7
2015	10.2 7.1	47.6	0.3	0.0	0.4	0.7	0.0	0.0	0.7	0.0	R 0.2	0.0	0.0	R 56.3
2016 2017	5.9	56.3 46.5	0.5	0.0 0.0	0.1 0.2	0.6 0.3	0.0 0.0	0.0 0.0	0.6	0.0 0.0	R 0.2 R 0.2	0.0	0.0 0.1	R 63.5 R 52.4
2018	4.8 4.3	46.5 37.7	0.1 1.3	0.0	0.7	2.0	0.0	0.0	0.6 0.5	0.0	R 0.2	0.0 0.0	(s)	R 44.6
2019	2.2	29.1	0.1	0.0	0.1	0.2	0.0	0.0	0.6	0.0	Rno	0.0	(s) 0.0	н 32 3
2020 2021	2.0	30.4 24.8	0.1 0.2	0.0 0.0	(s) (s)	0.1 0.2	0.0 0.0	0.0 0.0	0.7 0.7	0.0 0.0	R 0.2 R 0.2	0.0 0.0	0.0 0.0	R 33.3 R 30.5
2022	4.5 1.8	32.8	0.9	0.0	0.3	1.2	0.0	0.0	0.6	0.0	0.2	0.0	0.0	36.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, District of Columbia

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	d barrels
1960	1.051	13	2.894	2	0	4.957	2.428	292	10,573	0	3	0	NA	NA
1965	1,051 526	13 17	2,894 3,435	2	(s)	4,957 5,469	2,428 6,749	292 194	15,850	0	3	0	NA	NA
1970 1971	1,128 625	26 27	4,934 3,837	4	(s)	5,688 5,673	11,144 10,854	119 161	21,889 20,531	0	1	0	NA NA	NA NA
1972	510	29 28 27	3 354	5	3	5,636	10.589	113	19.698	0	1	0	NA	NA
1973 1974	564 502	28 27	3,569 3,592	5 4	(s)	5,976 5,699	11,068 7,421	110 143	20,728 16,858	0	1	0	NA NA	NA NA
1975 1976	418 242	26 29 26 26	3,157 3,418	4	(s) 0	5,748	4,174 4,250	143 190	13,273 13,372	Ŏ	1	Õ	NA	NA
1976 1977	242 167	29 26	3,418	5 5	0	5,500 5,215	4,250 5,358	199 354	13,372	0	1	0	NA NA	NA NA
1978	83	26	3,598 3,309	5	(s) 3	5,124	5,358 5,059	354 347	14,528 13,844	Ō	ŏ	Ō	NA	NA
1979 1980	119	30 28 29 29 29 29 30 31	2,773 2,284	3	3 3 3 3 3	4,544 3,881	2,419 1,612	388 345	10,130 8,455	0	0	0	NA NA	NA NA
1981	134 99	29	1.475	5	329 566	3.978	1.074	150 78	7.247	0	0	0	(s) (s)	NA
1982 1983	125	29	1,999	5 5	336 108	4,018 3,978	1,687 1,310	78 06	8,123 7,801	0	0	0	(s)	NA NA
1984 1985	123 100 140	29 29	2,304 2,587 2,394	8	39 7	3,976 4,218	1,466 740	96 95	8,412	0	0	0	(s) (s)	NA NA NA
1985	140	29	2,394	4		3,802	740	151	7.098	0	0	0	(s)	NA
1986 1987	54 70	30 31	2,584 2,134	4	501 (s)	3,877 4,246	1,485 1,355	99 106	8,550 7,845	0	0	0	(s) 1	NA NA
1988 1989	31 60	33 33 29 31	2,021 1,895	5	(s) 5	4,358 4,200	1 168	107 147	7,664 7,690	Ō	Ō	Ō	1	NA
1989 1990	60 69	33 29	1,895 1,652	5 4	0 5	4,200 4,043	1,443	147 104	7,690 6,829	0	0	0	1	NA NA
1991	69 66	31	1,696	4	0	4,023	1,020 664	86	6,829 6,474	Ō	ő	ő	1	NA
1992 1993	50 51	33 33 31 33 34 34 30 32 33 33 32 29 33 32 29 33 32 33	1,700 1,686	7 6	0 101	4,024 4,185	469 647	86 97	6,286 6,724	0	0	0	0	NA NA
1994	47	31	1.981	6	0	4,099	735	99	6.919	Ö	ő	ŏ	Ö	NA
1995 1996	6 23	33	1,839 2,004	5 6	0	4,142 3,862	735 532 337	224 187	6,742 6,396	0	0	0	0	NA NA
1997	40	34	1,474	7	0	4,066	160 454	307 393	6,015	0	0	0	0	NA
1998	6 6	30	1,284	3 3	0	4,031 3,979	454 442	393	6.165	0	0	0	0	NA NA
1999 2000	7	32	1,380 1,710	7	0	3,979 4,070	210	326 340	6,130 6,337	0	0	0	0	NA NA
2001 2002	30	30	1,660 2,131	5	Ö	3.890	285	293 88 77	6,134 6,149	Ō	0	Ö	0	(s)
2002	4 7	33 33	2,131 1,909	3 5	0	3,927 3,497	0	88 77	6,149 5,488	0	0	0	0	(s) (s)
2004	30	32	1,960	4	0	3,590	Ö	74	5.629	Ö	Ö	0	Ō	(s)
2005 2006	38 0	32 29	1,873 1,046	4	0	3,366 3,188	0	78 79	5,322 4,318	0	0	0	62 163	(s)
2007	20	33	1.030	5	ŏ	3.057	ŏ	74 78 79 87 77	4.178	Ö	Ŏ	Ō	196	i
2008 2009	14 12	32	916 884	5 5	0	2,575 2,684	0	77 649	3,573 4,221	0	0	0	143 163	1
2010	3	33	1,168	6	0	2,730	0	688 629	4,592	0	0	0	290	i
2011	2	33	846	5	0	2,806	0	629	4,592 4,287	0	0	0	290	3
2012 2013	3 (s)	29 33	735 609	7 7	0	2,280 2,311	0	663 674 659	3,685 3,600	0	0	0	230 238	2
2014	(s) 2	34	650	7	Ŏ	2,568	Ŏ	659	3 884	Ö	Ŏ	Ö	238 267	8
2015 2016	2 1	29 33 34 32 29	666 493	17 6	0	2,646 2,835	0	629 516	3,958 3,849 R 3,332 R 3,768	0	0	0	276 294	9 12
2017	i	29 29 31	317	3	Ö	2,474	0	R 538	R 3,332	Ö	ŏ	Ö	257	8
2018 2019	1	31	399 478	4 5	0	2,861 2,787	0	R 505 R 428	H 3,768	0	0	0	295 293	5 5
2020	(s) 0	31 27	341 R 628	5	0	2,319	0	H 414	R 3,699 R 3,079	0	0	0	246	4
2021	0	27 29	R 628	27	0	2.443	Ö	R 504	H 3,602	0	0	0	261	R 6
2022	0	29	639	26	0	2,331	0	506	3,501	0	0	0	249	5

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of</sup> data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, District of Columbia (trillion Btu)

	(trilloi	i Dia)											
		1			Fossil	fuels					-	Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL b	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol a	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960 1965 1970 1971 1972 1973 1974 1975 1976 1977 1978 1980 1981 1982 1983 1984 1985 1988 1989 1990 1991 1993 1994 1995 1997 1998 1999 2000 2001 2002 2004 2005 2006 2007 2008 2009	27.8 13.8 28.4 15.4 12.6 14.1 12.3 10.1 5.8 4.0 2.9 3.3 2.4 3.1 3.0 2.5 3.5 1.4 1.7 1.3 1.3 1.2 0.1 0.6 1.0 0.2 0.2 0.2 0.2 0.7 0.1 0.2 0.2 0.7 0.1 0.9 0.0 0.5 0.4 0.0 0.5 0.4 0.0 0.5 0.4 0.7 0.9 0.0 0.5 0.4 0.7 0.9 0.0 0.5 0.4 0.3	13.0 17.3 26.4 27.7 29.0 28.2 27.6 26.2 29.0 26.2 26.6 30.1 27.9 29.4 29.7 29.6 29.8 29.3 30.0 31.4 33.1 33.8 29.1 31.3 33.2 34.2 34.2 34.8 31.2 33.0 34.4 30.6 33.7 33.7 33.7 33.7 33.7 33.7 33.1 33.8 29.8 39.9 32.8		(\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$)	fuel c  0.0 (s) (s) (s) (s) (s) (s) 0.0 0.0 0.0 0.0 (s) 1.9 3.2 1.9 0.6 0.2 (s) 2.8 (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	fuel ethanol a   26.0   28.7   29.9   29.8   29.6   31.4   29.9   20.4   20.9   20.4   20.9   22.2   20.0   20.4   22.3   22.1   21.1   21.1   21.1   21.1   21.1   21.1   21.1   21.1   21.2   21.0   20.7   21.2   20.7   21.2   20.4   18.2   18.7   17.3   16.0   12.7   13.1   12.8   21.4   21.6   20.1   21.7   13.1   12.8   21.7   21.8   21.8   21.9   20.1   21.9	15.3 42.4 70.1 68.2 66.6 69.6 69.6 46.7 26.2 26.7 33.7 31.8 15.2 10.1 6.7 10.6 8.2 9.2 4.7 9.3 8.5 7.3 9.1 4.4 4.2 2.9 9.4 1 4.6 3.3 2.1 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.7 1.1 0.7 1.0 0.7 0.9 1.1 1.2 2.1 2.0 2.2 2.0 0.9 0.5 0.6 0.6 0.7 0.7 0.9 0.6 0.6 0.7 0.7 0.9 0.6 0.6 1.3 1.1 1.8 2.3 1.9 2.0 1.1 1.1 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	59.9 92.3 129.4 121.4 116.4 122.5 98.4 76.0 76.7 84.1 80.0 57.5 47.7 40.4 45.8 47.3 39.5 48.2 43.9 42.7 43.1 38.0 35.7 34.5 36.9 38.2 36.9 35.0 32.6 33.4 34.4 33.4 29.8 30.5 22.5 21.5 18.4 22.5 24.1	100.6 123.4 184.2 164.5 158.0 164.7 138.2 111.3 111.6 90.5 72.2 78.6 76.4 79.5 72.4 79.6 77.1 76.6 78.3 68.8 68.7 69.0 71.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5 70	gaseous fuels a  13.0 17.3 26.4 27.7 29.0 28.2 27.6 26.2 29.0 26.2 26.6 30.1 28.0 29.4 29.8 29.6 29.8 29.6 29.3 30.0 31.4 33.1 33.8 29.1 31.2 33.2 33.2 33.2 34.2 34.8 31.2 33.3 31.2 33.3 31.2 33.3 31.2 33.3 33.3	16.9 20.0 28.7 22.4 19.5 20.8 20.9 18.4 19.9 21.0 19.3 16.2 13.3 8.6 11.6 13.4 15.1 11.8 11.0 9.6 9.9 9.9 9.8 11.5 10.7 11.7 8.6 7.5 8.0 9.9 9.7 12.4 11.1 11.4 11.9 6.1 6.0 6.3 5.3	100 ethanol a 26.0 28.7 29.9 29.8 29.6 31.4 26.9 23.9 20.4 20.9 22.1 21.1 21.1 21.1 21.1 21.1 21.1 21
2010 2011 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	0.1 (s) 0.1 (s) (s) (s) (s) (s) (s) 0.0 0.0	33.7 33.4 29.4 33.7 35.3 33.7 30.2 30.6 32.6 31.6 28.0 28.3 30.2	6.7 4.8 4.2 3.4 3.7 3.8 2.7 1.8 2.3 2.7 1.9 8 3.6 3.6	(s) (s) (s) (s) (s) 0.1 (s) (s) (s) (s) 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.8 13.2 10.7 10.9 12.1 13.3 11.6 13.4 13.1 10.9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.6 4.2 4.4 4.5 4.4 4.2 3.4 8.3 2.8 2.7 3.3 3.3 3.3	24.1 22.2 19.4 18.8 20.1 20.4 19.5 16.9 19.0 18.6 15.5 8 18.4	57.9 55.7 48.8 52.5 55.5 54.1 49.7 47.6 51.7 50.2 43.5 R 46.8 48.1	33.7 33.4 29.4 33.7 35.3 33.7 30.2 30.6 31.6 28.0 28.3 30.2	6.7 4.9 4.2 3.5 3.8 2.8 2.3 2.8 2.0 R 3.6 3.7	13.8 14.2 11.5 11.7 13.4 14.3 12.5 14.5 14.1 11.7 12.3 11.8

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, District of Columbia (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	mass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0	(s)	0.1	NA	NA	NA	NA	0.1	0.0	NA	NA	R <sub>0.1</sub>	R 15.0	0.0	R 115.7 R 153.8 R 199.1 R 192.2
1965	0.0	(s)	0.1	NA	NA	NA	NA	0.1	0.0	NA	NA	0.1	R 30.2 R 14.7 R 27.7	0.0	H 153.8
1970 1971	0.0 0.0	(S)	0.1 0.1	NA NA	NA NA	NA NA	NA NA	0.1 0.1	0.0 0.0	NA NA	NA NA	0.1 0.1	<sup>□</sup> 14./ R 27.7	0.0 0.0	R 199.1
1972	0.0	(s)	0.1	NA	NA	NA	NA	0.1	0.0	NA	NA	0.1	R 23.9 R 21.8 R 26.0 R 43.7	0.0	R 182.0
1973	0.0	(s)	0.1	NA	NA	NA	NA	0.1	0.0	NA	NA	0.1	R 21.8	0.0	R 182.0 R 186.6 R 164.3 R 156.1 R 157.9 R 158.3 R 153.9 R 146.1 R 146.7 R 156.1 R 156.0 R 158.0 R 157.0 R 167.5 R 167.5 R 169.1 R 173.2 R 180.2
1974 1975	0.0 0.0	(s)	0.1 0.1	NA NA	NA NA	NA NA	NA NA	0.1 0.1	0.0 0.0	NA NA	NA NA	0.1 0.1	n 26.0 B 42.7	0.0 0.0	n 164.3 B 156 1
1976	0.0	(s)	0.1	NA NA	NA NA	NA NA	NA NA	0.1	0.0	NA NA	NA NA	0.1	R 46.2	0.0	R 157.9
1976 1977	0.0	(s) 0.0	0.1 0.2	NA NA	NA	NA	NA	0.1 0.2	0.0	NA	NA	0.1 0.2	R 46.2 R 43.8	0.0	R 158.3
1978	0.0	0.0	0.2 0.2	NA	NA	NA	NA	0.2	0.0	NA	NA	0.2 0.2	H 45.1	0.0	H 153.9
1979 1980	0.0 0.0	0.0	0.2	NA NA	NA NA	NA NA	NA NA	0.2	0.0 0.0	NA NA	NA NA	0.2	R 45.1 R 45.1 R 64.9 R 68.6 R 73.0 R 76.2 R 83.0	0.0 0.0	1146.1 R 146.7
1981	0.0	0.0 0.0	2.8 2.3	(s)	NA	NA	0.0	2.8 2.3	0.0	NA NA	NA	2.8 2.3	R 68.6	0.0	R 143.1
1982	0.0	0.0	3.7 2.6 3.2 3.3	(s) (s)	NA	NA	0.0	3.7	0.0	NA	NA	3.7	R 73.9	0.0	R 156.1
1983	0.0 0.0	0.0	2.6	(s) (s) (s)	NA NA	NA NA	0.0 0.0	2.6 3.2 3.3	0.0 0.0	NA 0.0	0.0 0.0	2.6 3.2 3.3	H 75.0	0.0 0.0	H 154.0
1984 1985	0.0	0.0 0.0	3.2	(S)	NA NA	NA NA	0.0	3.2	0.0	0.0	0.0	3.2	R 83 0	0.0	R 158.7
1986 1987	0.0	0.0 0.0	3.0 2.2	(s)	NA	NA	0.0	3.0 2.2	0.0	0.0 0.0	0.0 0.0	3.0 2.2	R 84.4	0.0	B 167.0
1987	0.0	0.0	2.2	(s) (s)	NA	NA	0.0	2.2	0.0	0.0	0.0	2.2	R 88.2	0.0	R 167.5
1988 1989	0.0 0.0	0.0 0.0	2.4 2.5	(s) (s) 0.0	NA NA	NA NA	0.0 0.0	2.4 2.5	0.0 0.0	0.0 (s)	0.0 0.0	2.4 2.5	□ 90.2 B oo 4	0.0 0.0	n 169.1
1990	0.0	0.0	1.3	(5)	NA NA	NA NA	0.0	1.3	0.0	(s)	0.0	1.3	R 110.6	0.0	R 180.6
1991	0.0	0.0 0.0	1.3 1.3	(s) 0.0	NA	NA	0.0	1.3 1.3	0.0	(s)	0.0	1.3	R 84.4 R 88.2 R 90.2 R 92.4 R 110.6 R 116.2	0.0	R 186.2
1992	0.0	0.0	1.4	0.0	NA	NA	0.0	1.4	0.0	(s)	0.0	1.4	H 117.0	0.0	R 187.4 R 194.6
1993 1994	0.0 0.0	0.0 0.0	1.9 1.8	0.0 0.0	NA NA	NA NA	0.0 0.0	1.9 1.8	0.0 0.0	(S)	0.0 0.0	1.9 1.8	R 117.3	0.0 0.0	H 194.6
1995	0.0	0.0	1.9	0.0	NA	NA	0.0	1.9	0.0	(s)	0.0	1.9	R 119.5	0.0	R 189.7 P 191.6
1996 1997	0.0	0.0 0.0	1.9	0.0	NA	NA	0.0	1.9	0.0	(s)	0.0	1.9 1.9	R 112.2	0.0	R 183.9
199 <i>7</i> 1998	0.0 0.0	0.0	1.4 1.2	0.0 0.0	NA NA	NA NA	0.0 0.0	1.4 1.2	0.0 0.0	(s)	0.0 0.0	1.4 1.2	P 111.1	0.0 0.0	n 180.8
1999	0.0	0.0	1.3	0.0	NA NA	NA NA	0.0	1.3	0.0	(s)	0.0	1.2	R 117.2	0.0	R 185.0
2000	0.0	0.0 0.0	1.3 1.4	0.0	NA	NA	0.0	1.3 1.4	0.0	(s)	0.0	1.3 1.4 0.9	R 124.5	0.0	R 183.9 R 180.8 R 182.6 R 185.0 R 194.8
2001 2002	0.0 0.0	0.0	0.9 0.9	0.0 0.0	(s)	NA NA	0.0	0.9 0.9	0.0 0.0	(s)	0.0	0.9	H 124.8	0.0 0.0	n 190.4
2002	0.0	0.0	0.9	0.0	(s) (s)	NA NA	0.0 0.0	0.9	0.0	(s) (s)	0.0 0.0	0.9	R 123.6	0.0	R 191.6
2003 2004	0.0	0.0	0.9	0.0	(s)	NA	0.0	0.9 0.9	0.0	(s)	0.0	0.9 0.9 0.3	R 130.9	0.0	R 196.2
2005	0.0	0.0	(s)	0.2	(s)	NA	0.0	0.3	0.0	(s)	0.0	0.3	R 132.4	0.0	R 188.5 R 196.2 R 196.0 R 181.7
2006 2007	0.0 0.0	0.0 0.0	(s) (s)	0.6 0.7	(s)	NA NA	0.0	0.6 0.7	0.0 0.0	(s)	0.0 0.0	0.6 0.7	n 128.8 R 132.7	0.0 0.0	R 181.7 R 189.4
2007	0.0	0.0	(s)	0.7	(s)	NA	0.0	0.5	0.0	(s)	0.0	0.6	R 125.9	0.0	R 178.0
2009	0.0	0.0	(s)	0.6	(s)	NA	0.0	0.6	0.0	_ (s)	0.0	0.6	R 122.9	0.0	R 180.6
2010	0.0	0.0	(s)	1.0	(s)	NA	0.0	1.0	(s) 0.1	R (s) R 0.1	0.0	1.1 B 1.2	H 125.2	0.0	R 178.0 R 180.6 R 184.2 R 174.6
2011 2012	0.0 0.0	0.0	(s) (s)	1.0 0.8	(s) (s)	0.0 0.0	0.0 0.0	1.0	0.1 (s)	11 U.1 R O 1	0.0 0.0	11.2 Rna	H 117.8	0.0 0.0	H 1/4.6
2013	0.0	0.0 0.0	(s)	0.8	(s)	0.0	0.0	0.8 0.9	(s)	R 0.1 R 0.1	0.0	R 0.9 R 1.0	R 112.7	0.0	R 166.3
2014	0.0	0.0	(s)	0.9	(s)	0.0	0.0	1.0	(s)	R <sub>0.1</sub>	0.0	R11	R 113.4	0.0	R 170.0
2015 2016	0.0 0.0	0.0 0.0	0.5 0.8	1.0	0.1 0.1	0.0 0.0	0.0 0.0	1.5 1.9	(s)	R 0.1	0.0 0.0	R 1.6	R 117.0 R 121.1 R 117.3 R 119.5 R 119.5 R 111.1 R 116.4 R 117.2 R 124.5 R 123.6 R 123.9 R 130.9 R 132.4 R 128.8 R 132.7 R 125.9 R 125.9 R 14.0 R 117.8 R 117.8 R 117.8 R 117.8 R 117.8 R 117.8 R 117.8 R 117.9 R 117.9	0.0 0.0	R 163.7 R 166.3 R 170.0 R 169.4 R 163.7 R 155.2 R 162.0
2016	0.0	0.0	0.8 0.8	1.0 0.9	(s)	0.0	0.0	1.9	(s) (s)	R 0.1 R 0.2	0.0	R 2.0 R 2.0 R 2.3	R 105.6	0.0 (a)	R 155.2
2018	0.0	0.0	0.9	1.0	(s)	0.0	0.0	2.0	(s)	R 0.2	0.0	R 2.3	R 108.0	(s) (s)	R 162.0
2019	0.0	0.0	1.1	1.0	(s)	0.0	0.0	2.1 1.8	(s)	H04	0.0 0.0	H 2.5	H 104.6	0.0	
2020 2021	0.0 0.0	0.0 0.0	1.0 0.9	0.9 0.9	(s) (s)	0.0 0.0	0.0 0.0	1.8	(s) (s)	R 0.4 R 0.6	0.0	R 2.5 R 2.3 R 2.5	R 86.3 R 90.6	0.0 0.0	R 132.1 R 139.8 141.0
2022	0.0	0.0	1.0	0.9	(s)	0.0	0.0	1.9 1.9	(s)	0.0	0.0	2.6	90.3	0.0	141.0

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, District of Columbia

		-				-									1				
							Petroleum				Unidan	Bior	nass						
S		Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
T R	Year	Thousand short tons	Billion cubic feet				Thousand barrel	s			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
ī.	1960 1970	605 455	13	2,890 3,800	2	0	4,957 5,688	2,420 8,390	292 119	10,561	0					2,654 5,392			
•	1970	134	26 28	2,175	4	(s) 329	3,881	150	345	17,999 6,884	0					5,392 7,004			
C	1990	69	29	1,579	4	5	4,043	222	104	5,958	0					9,848			
	2000	7	33	1,540	7	0	4,070	1	340	5,958	0					10,616			
Т	2005 2006	38	32 29	1,334 815	4	0	3,366 3,188	0	78 79	4,782 4,086	0					11,816 11,396			
•	2007	20	33	832	5	ő	3,057	0	87	3,981	ő					12,110			
	2008	14	32	753	5	0	2,575	0	77	3,410	0					11,616			
	2009	12	33 33	799 734	5 6	0	2,684	0	649 688	4,136	0					11,434			
0	2010 2011	3 2	33	734 571	5	0	2,730 2,806	0	629	4,158 4,011	0					11,877 11,562			
	2012	3	29	710	7	0	2,280	0	663	3,659	0					11,259			
F	2013	(s)	33	609	7	0	2,311	0	674	3,600	0					,			
•	2014 2015	2	34 32	650 666	7 17	0	2,568 2,646	0	659 629	3,884 3,958	0					11,194			
	2015	1	29	493	6	0	2,835	0	516	3,849	0					11,291 11,394			
	2017	1	29	317	3	0	2,474	0	R 538	R 3.332	ő					10,916			
C	2018	1	31	399	4	0	2,861	0	R 505	R 3,768	0					11,358			
C	2019 2020	(s) 0	31 27	478 341	5 5	0	2,787	0	R 428 R 414	R 3,699 R 3,079	0					11,028			
$\mathbf{\cap}$	2020	0	27	R 628	27	0	2,319 2,443	0	R 504	R 3,602	0					9,786 10,083			
O	2022	0	29	639	26	0	2,331	0	506	3,501	0					10,242			
L										Trillion	Btu								
	1960	15.5	13.0	16.8	(s)	0.0	26.0	15.2	1.7	59.8	0.0	0.1	NA	NA	NA	9.1	97.5	R 18.3	R 115.7
U	1970	11.0	26.4	22.1	(s)	(s)	29.9	52.7	0.7	105.5	0.0		NA NA			18.4	161.4	R 37.7	R 199.1
B.//	1980	3.3	28.0	12.7	(s)	1.9	20.4	0.9	2.0	37.9	0.0		NA			23.9	95.9	R 50.8	R 146.7
M	1990	1.7	29.1	9.2	(s)	(s)	21.2	1.4	0.6	32.5	0.0		0.0			33.6	98.2	R 82.4	R 180.6 R 194.8
	2000 2005	0.2 0.9	34.4 33.8	9.0 7.8	(s) (s)	0.0	21.2 17.5	(s) 0.0	2.0 0.5	32.1 25.7	0.0		0.0			36.2 40.3	104.3 100.8	R 90.6 R 95.2	R 196.0
В	2006	0.0	29.8	4.7	(s)	0.0	16.5	0.0	0.5	21.8	0.0		0.0			38.9	90.5	R 91.2	R 181.7
	2007	0.5	33.9	4.8	(s)	0.0	15.7	0.0	0.5	21.1	0.0		0.0			41.3		R 92.6	R 189.4
	2008 2009	0.4	32.8	4.4	(s)	0.0	13.1 13.7	0.0	0.5	18.0 22.6	0.0		0.0			39.6 39.0	90.9 96.3	R 87.2 R 84.3	R 178.0 R 180.6
	2009	0.3 0.1	34.3 33.7	4.6 4.2	(s) (s)	0.0 0.0	13.7	0.0 0.0	4.3 4.6	22.6	0.0 0.0		0.0		(s) R (s)	39.0 40.5	96.3 R 97.0	R 87.2	H 180.6 R 184.2
Α	2011	(s)	32.4	3.3	(s)	0.0	14.2	0.0	4.2	21.7	0.0		0.0	0.1	R 0.1	39.4	R 93 7	R 81.0	R 174.7
	2012	0.1	29.4	4.1	(s)	0.0	11.5	0.0	4.4	20.0	0.0		0.0		R 0.1	38.4	R 88.1	R 75.7	R 163.8
	2013	(s)	33.7	3.5	(s)	0.0	11.7	0.0	4.5	19.7	0.0		0.0		R 0.1 R 0.1	37.8	H 91.4	R 74.9	R 166.3
	2014 2015	(s) (s)	35.3 33.7	3.7 3.8	(s) 0.1	0.0	13.0 13.4	0.0	4.4 4.2	21.1 21.4	0.0		0.0		R 0.1	38.2 38.5	R 93.8	R 75.2 R 75.6	R 170.0 R 169.4
	2016	(s)	30.2	2.8	(s)	0.0	14.3	0.0	3.4	20.6	0.0		0.0		R <sub>0.1</sub>	38.9	R 89.8	R 73.9	R 163.7
	2017	(s)	30.6	1.8	(s)	0.0	12.5	0.0	R 3.6	17.9	0.0	0.8	0.0	(s)	R 0.2	37.2	R 86.8	R 68.4	R 155.2
	2018	(s)	32.6	2.3	(s)	0.0	14.5	0.0	3.3	20.1	0.0		0.0	(s)	R 0.2		R 92.7	R 69.3	R 162.0
	2019 2020	(s) 0.0	31.6 28.0	2.8 2.0	(s) (s)	0.0	14.1 11.7	0.0	2.8 2.7	19.7 16.4	0.0		0.0		R 0.3 R 0.4	37.6 33.4	R 90.3 R 79.2	R 67.0 R 53.0	R 157.3 R 132.2
	2020	0.0	28.3	R 3.6	0.1	0.0	12.3	0.0	3.3	R 19.4	0.0		0.0		R 0.5	34.4	R 83.6	R 56.3	R 139.9
	2022	0.0	30.2	3.7	0.1	0.0	11.8	0.0	3.3	18.9	0.0			(-)	0.6			55.4	141.1

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, District of Columbia

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	79	9	1,314	1	67	1,382				429			
1965	79 59	11	1,241	1	43	1,285				578			
1970 1975	22 5	14 13	1,622 1,161	1	21	1,644 1,169				830 909			
1980	23	14	749	i	5	755				1.085			
1985	31	17	553	1	10	564				1,233			
1990 1995	14	15 16	178 284	1	3 6	182 292				1,480 1,608			
2000	- 1	15	218	1	3	292				1,624			
2005	3	14	351 183	ż	(s)	352 184				1,938			
2006	0	11	183	1	0	184				1,822			
2007 2008	2	13 13	205 144	2 2	0	206 146				1,970 1,916			
2009	0	13	176	2	0	178				1,900			
2010	Ö	14	210	2	Ö	212				2,123			
2011	0	12 11	36 184	(s)	0	36 184				2,061 2,003			
2012 2013	0	13	143	(s)	0	184				2,003			
2014	Ö	14	139	3	Ō	142				2,072			
2015	0	13	186		,0	188				2.498			
2016 2017	0	11 12	19 16	1	(s)	20 17				2,502 2,395			
2017	0	13	118	i	0	119				2 592			
2019	Ö	13 12	9	2	(s)	11				2,547			
2020	0	11	7 R 101	2 10	0	9 R 111				2,453 2,528			
2021 2022	0	12 12	105	10	0	115				2,526 2,519			
							Trillion Btu						
1960	2.0	9.0	7.7	(s)	0.4	8.0	0.1	NA	NA	1.5	20.6	R 3.0	R 23.6
1965 1970	2.0 1.5 0.5	11.1	7.2 9.4	(s)	0.2	7.5 9.6	0.1 0.1	NA NA	NA	2.0 2.8	22.1 27.2	R 3.9 R 5.8	R 26.0
1970	0.5	14.1	9.4	(s)	0.1		0.1	NA NA	NA	2.8	27.2	R 5.8 R 6.3	R 26.0 R 33.0 R 29.8 R 33.1 R 36.9
1975 1980	0.1 0.6	13.3 13.8	6.8 4.4	(s) (s)	(s) (s)	6.8 4.4	0.1 2.8	NA NA	NA NA	3.1 3.7	23.5 25.2	H 6.3	H 29.8 R 33.1
1985	0.8	16.9	3.2	(s)	0.1	3.3	3.2	NA	NA NA	4.2	28.4	R 7.9 R 8.5	R 36.9
1990	0.3	15.3 15.8	1.0	(s)	(s) (s)	1.1	1.2 1.6	0.0 0.0	(s) (s)	5.1 5.5	22.9	H 12 /	ח עה ע
1995 2000	(s)	15.8 15.9	1.7 1.3	(s) (s)	(s) (s)	1.7 1.3	1.6 1.2	0.0	(s) (s)	5.5 5.5	24.6 23.9	R 13.6 R 13.9	R 38.2 R 37.7
2005	(s) 0.1	14.6	2.0	(s)	(s)	2.0		0.0	(s)	6.6	23.3	R 15 6	R 39.0 R 33.6 R 36.8
2006	0.0	11.7	1.1	(s)	(s) 0.0	1.1	(s) (s)	0.0	(s)	6.2	19.0	R 14.6 R 15.1	R 33.6
2007 2008	0.1 0.0	13.7 13.6	1.2 0.8	(s)	0.0 0.0	1.2 0.8	(s)	0.0 0.0	(s) (s)	6.7 6.5	21.7 21.0	P 15.1 P 14.4	n 36.8
2008	0.0	13.9	1.0	(S) (S)	0.0	1.0	(S) (S)	0.0	(S) (S)	6.5 6.5	21.5	R 14 0	R 35.4 R 35.5 R 37.9
2010	0.0	13.8	1.2	(s)	0.0	1.2	(s)	(s)	(s)	7.2	22.3	H 15.6	R 37.9
2011	0.0 0.0	12.6	0.2	(s)	0.0	0.2	(s)	0.1	(s) _ (s)	7.0 6.8	19.9 R 19.5	R 14.4 R 13.5 R 13.7	R 34.4 R 33.0 R 35.2
2012 2013	0.0	11.6 13.6	1.1 0.8	(s) (s)	0.0 0.0	1.1 0.8	(s) (s)	(s) (s)	B (a)	6.8 6.9	R 21.4	<sup>n</sup> 13.5	R 33.0
2013	0.0	14.9	0.8	(s)	0.0	0.8	(s)	(s)	H (a)	7.1	H 22.8	H 13.9	R 36.7
2015	0.0	14.1	1.1	(s)	0.0	1.1	0.0	(s)	n (s)	8.5	R 23.7	R 16 7	R 36.7 R 40.5
2016	0.0 0.0	11.9	0.1	(s)	(s) 0.0	0.1	(s) (s) 0.0	(s)	R 0.1 R 0.1	8.5	R 20.6 R 20.7	R 16.2 R 15.0	R 36.8 R 35.7 R 39.0
2017 2018	0.0	12.4 13.6	0.1 0.7	(s)	0.0	0.1 0.7	(S) 0.0	(S)	R 0 1	8.2 8.8	R 23.2	H 15.8	R 39.7
2019	0.0	12.5	0.1	(s)	(s)	0.1	0.0	(s)	R <sub>0.2</sub>	8.7	R 21 4	R 15 5	н 36 9
2020	0.0	11.6	(s)	(s)	(s) 0.0	(s) 0.6	(s) 0.0	(s)	R 0.2 R 0.3	8.4	R 20.3 R 21.5	R 13.3 R 14.1	R 33.5 R 35.6
2021 2022	0.0 0.0	11.9 12.3	0.6 0.6	(s) (s)	0.0 0.0	0.6 0.6	0.0 0.0	(s) (s)	<sup>H</sup> 0.3 0.4	8.6 8.6	<sup>H</sup> 21.5 21.9	H 14.1 13.6	<sup>rt</sup> 35.6 35.6
2022	0.0	12.3	0.0	(8)	0.0	0.0	0.0	(8)	0.4	0.0	21.9	13.0	33.0
							•			•			· ·

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, District of Columbia

_					-			,			Diamass						
						Pe	troleum			Hydro-	Biomass	-					
S		Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>	Wood		Solar <sup>f,h</sup>	Electricity i		Electrical system	
Т	Year	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	and waste <sup>f,g</sup>	Geothermal <sup>f</sup>		lion tthours	End use <sup>f,j</sup>	energy losses <sup>k</sup>	Total <sup>f,j</sup>
R	1960	55	4	1.060	(e)	3/	85	1.443	2,621	NA			NA	955			
11	1960 1965	55 45 18	6	1,060 1,001	(s) (s) (s)	34 22 10	85 78	1,443 4,044	5,145	NA	==		NA	955 1,359		==	
	1970	18	12	1,308	(s)	10	65	5,081	6,464	NA			NA	1.935			
•	1975 1980	11 86	12 14	936 647	1 (s)	4	78 40	1,051 37	2,069 725	NA NA			NA NA	2,355 2,457			
C	1985 1990	109	12	836 596	(s) (s)	55	27	286	1,205	NA			NA	4,317			
O	1990	109 56 5	13 17	596 830	(s)	8 129	71 101	218 130	893	0			(s) (s)	5,250 8,275			
T	1995 2000	6	17	561	(s)	243	54	130	1,190 860	0			(S) (S)	8,275 8,540			
	2005	35 0	18	404	1	3	246	ò	654 418	ŏ			(s)	9.296			
	2006	0	17	348	1	3	66	0	418	0			`1	9,030			
	2007 2008	18 14	19 18	304 201	1	(s)	24 61	0	330 263	0			1 2	9,519 9,131			
$\mathbf{O}$	2009	14 12	19	299	i	(s)	31	ŏ	331	ŏ			2	8,992			
O	2010	3	19	181	1	(s)	225 271	0	407 389	0			6	9,209			
	2011	2	17 15	117 128	(s) 3	(s) (s)	2/1	0	389 137	0			15 18	8,966 8,713			
F	2012 2013	(s) 2	17	112	ĭ	(s)	7	ŏ	121	ŏ			21 22	8,499			
	2014		17	100	, 1	(s)	7	0	107	0			22	8,548			
	2015 2016	2	17 16	125 111	(s) (s)	(s) (s)	63 75	0	188 187	0			23 15	8,222 8,368			
	2017	i	16	68 95	(s)	(s)	75 77	ŏ	144	ŏ			29 43	8,006			
C	2018	1	17	95	(s)	(s)	77	0	173	0			43	8,236			
	2019	(s) 0	16 15	68 46	1	(s) (s)	82 81	0	151 129	0			50 56	7,952 6,815			
0	2020 2021	0	15 15	R 105	4	(s)	80	Ŏ	188	ŏ			56 61	7,044			
Ť	2022	0	15	107	3	(s)	78	0	189	0			68	7,290			
L									Tri	lion Btu							
U	1960	1.4 1.1	3.7	6.2 5.8 7.6	(s)	0.2	0.4	9.1	15.9	NA	(s) (s)	NA	NA	3.3 4.6	24.2	R 6.6	R 30.8 R 52.6 R 72.3
	1965 1970	1.1 0.4	6.0 11.8	5.8	(s) (s) (s)	0.1 0.1	0.4 0.3	25.4 31.9	31.8 40.0	NA NA	(s) (s)	NA NA	NA NA	4.6 6.6	43.5 58.8	R 9.1 R 13.5	n 52.6 B 70.0
M	1975	0.2	12.4	5.5	(s)	(s)	0.4	6.6	12.5	NA		NA	NA	8.0	33.2	H 16.4	n 49.6
	1980	2.1	13.8	3.8	(s)	(s)	0.2	0.2	12.5 4.2	NA	(s) 0.1	NA	NA	8.4	28.6	H 17 R	R 46 4
В	1985 1990	2.7 1.4	12.1 13.6	4.9 3.5	(s)	0.3	0.1 0.4	1.8	7.1	NA 0.0	0.1 0.1	NA 0.0	NA (s)	14.7 17.9	36.8 38.3	n 29.9 R 43.0	R 66.7 R 82.2
ם	1995	0.1	17.1	4.8	(s)	(s) 0.7	0.4	1.4 0.8	7.1 5.3 6.9	0.0	0.1	0.0	(s)	28.2	52.6	R 29.9 R 43.9 R 70.0	n 122 6
- 1	2000 2005	0.2 0.9	18.2	3.3 2.3	(s)	1.4	0.3	(s) 0.0	4.9 3.6	0.0	0.2	0.0	(s)	29 1	52.6	R 72.9 R 74.9	R 125.5
	2005 2006	0.9 0.0	18.6 17.5	2.3	(s)	(s) (s)	1.3 0.3	0.0 0.0	3.6	0.0 0.0	(s)	0.0 0.0	(s)	31.7 30.8	54.8	H 74.9 B 70.0	R 129.8
Λ	2007	0.0	19.8	2.0 1.8	(s) (s)	(s)	0.3	0.0	2.4 1.9	0.0	(s) (s)	0.0	(s) (s)	32.5	50.7 R 54.6	R 72.3 R 72.8	R 123.0 R 127.4
A	2008	0.4	18.9	1.2 1.7	(s)	(s)	0.3	0.0	1.5 1.9 2.2	0.0	(s)	0.0	(s)	31.2	52 0	R 68.5 R 66.3 R 67.6	H 120 5
	2009 2010	0.3 0.1	19.4 18.8		(s) (s)	(s)	0.2 1.1	0.0 0.0	1.9	0.0 0.0	(s)	0.0 0.0	(s) R (s)	30.7 31.4	52.3 _ 52.5	H 66.3	R 118.6 R 120.1
	2010		17.2	1.0 0.7	(S)	(s)	1.1	0.0	2.2	0.0	(s)	0.0	0.1	30.6	Н да а	R 62 8	H 1127
	2012	(s) 0.1	15.8	0.7	(s)	(s)	(s)	0.0	0.8	0.0	(s)	0.0	R 0 1	29.7	R 46.5	R 62.8 R 58.6	R 105.1
	2013	(s)	17.8	0.6	(s)	(s)	(s)	0.0	0.7 0.6	0.0	(s)	0.0	R 0.1 R 0.1	29.0	R 46.5 R 47.5 R 48.2 R 47.1	R 57.4 R 57.4 R 55.1 R 54.3 R 50.2	H 10// Q
	2014 2015	(s) (s)	18.3 17.9	0.6 0.7	(S) (S)	(s) (s)	(s) 0.3	0.0 0.0	0.6 1.0	0.0 0.0	(s) 0.0	0.0 0.0	R 0.1	29.2 28.1	R 47 1	N 57.4 R 55.1	R 105.6 R 102.1
	2016	(s)	16.3	0.6	(s)	(s)	0.4	0.0	1.0	0.0	(s) 0.8	0.0	0.1	28.6	R 46.0 R 45.7	R 54.3	R 100.3
	2017	(s)	16.7	0.4	(s)	(s)	0.4	0.0	0.8	0.0	0.8	0.0	R 0.1	27.3	R 45.7	R 50.2	R 95.9
	2018 2019	(s)	17.2 16.7	0.5 0.4	(s) (s)	(s) (s)	0.4 0.4	0.0 0.0	0.9 0.8	0.0 0.0	0.9 1.1	0.0 0.0	R 0.1 R 0.2	28.1 27.1	R 47.4 R 45.9	R 50.2 R 48.3	R 97.6 R 94.2
	2020	(s) 0.0	15.6	0.3	(s)	(s)	0.4	0.0	0.7	0.0	1.0	0.0	H 0.2	23.3	R 40.7	R 36.9	R 94.2 R 77.5
	2021	0.0	15.2	0.6	(s)	(s)	0.4	0.0	1.0	0.0	0.9	0.0	R 0.2	24.0	R 41.4	R 39.3	R 80.7
	2022	0.0	16.0	0.6	(s)	(s)	0.4	0.0	1.0	0.0	1.0	0.0	0.2	24.9	43.1	39.5	82.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Thousand barrels

Residual

fuel oil

Other d

Total

Motor

gasoline c

HGL b

D

Electrical

system

energy

losses

Total f,k

1960	463 129	(s) (s)	211	1	0	949	80	1,241 3,076	0				NA	1,237 1,836			
1965	129	(s)	316	1	0	2,689	70	3,076	0				NA	1,836			
1970	414	(s)	377	2	0	3,296	35	3,710	0				NA	2,627			
1975 1980	292 25	(S)	150 192	3	0	686 54	132 285	970 534	0				NA NA	2,532 3,356			
1985	0	(5)	40	2	59	1	37	139	0				NA NA	3,330			
1990	0	ŏ	2	2	90	i	38	133	ő				(s)	2,534 2,976		==	
1995	ő	ŏ	16	3	44	(s)	33	95	ő				(s)	262			
2000	Ö	Ö	34	5	23	(s)	36	98	Ö				(s)	273			
2005	0	0	39	1	112	Ò	24	177	0				(s)	256			
2006	0	0	42	1	112	0	24	179	0				Ò	240			
2007	0	0	49	2	55	0	32 29	138	0				0	297			
2008	0	0	30	1	66	0	29	126	0				0	257			
2009	0	0	27	1	62	0	606	696	0				0	234			
2010 2011	0	0	9 23	2	32 34	0	674 615	717 677	0				0	230 216			
2012	0	0	23	4	34	0	650	711	0				0	218			
2013	ň	Õ	16	3	35	Ö	662	716	ň				0	227			
2014	ŏ	Õ	19	3	45	ő	643	710	ő				ő	242			
2015	Ö	Ö	19	Ö	36	Ö	615	670	Ö				Ö	238			
2016	0	0	39	0	36	0	502	578	0				0	192			
2017	0	0	11	2	37	0	R 528	R 578	0				0	180			
2018	0	0	17	3	37	0	R 494	R 551	0				0	193			
2019	0	0	18	2	38	0	R 417 R 405	R 474 R 467	0				0	180			
2020 2021	0	0	23 21	13	38 37	0	R 490	R 561	0				Ü	186 240			
2022	0	0	21	12	39	0	492	563	0				0	182			
2022	0	- 0	21	12	- 00	0	432	300	0				0	102			
								•	Trillion Btu								
1960	12.0	0.2	1.2	(s)	0.0	6.0	0.5	7.7	0.0	0.0	NA	NA	NA	4.2	24.0	R 8.5	R 32.5
1965	3.3	0.3	1.8	(s) (s)	0.0	16.9	0.4	19.2	0.0	0.0	NA	NA	NA	4.2 6.3	29.0	R 8.5	R 41.4
1965 1970	3.3 10.0	0.3 0.4	1.8 2.2	(s) (s) (s)	0.0 0.0	16.9 20.7	0.4 0.2	19.2 23.1	0.0 0.0	0.0 0.0	NA NA	NA NA	NA NA	6.3 9.0	29.0 42.6	R 8.5 R 12.3 R 18.4	R 41.4
1965 1970 1975	3.3 10.0	0.3 0.4 0.4	1.8 2.2 0.9	(s) (s) (s)	0.0 0.0	16.9 20.7	0.4 0.2	19.2 23.1 6.0	0.0 0.0 0.0	0.0 0.0 0.0	NA NA NA	NA NA NA	NA NA NA	6.3 9.0 8.6	29.0 42.6 22.0	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6
1965 1970 1975 1980	3.3 10.0 7.0 0.6	0.3 0.4 0.4 0.4	1.8 2.2 0.9 1.1	(s) (s)	0.0 0.0 0.0 0.0	16.9 20.7 4.3 0.3	0.4 0.2 0.8 1.6	19.2 23.1 6.0 3.1	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	NA NA NA NA	NA NA NA NA	NA NA NA NA	6.3 9.0 8.6 11.5	29.0 42.6 22.0 15.5	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6 R 39.9
1965 1970 1975 1980 1985	3.3 10.0 7.0 0.6 0.0	0.3 0.4 0.4 0.4 0.0	1.8 2.2 0.9 1.1 0.2	(s) (s) (s)	0.0 0.0 0.0 0.0 0.3	16.9 20.7 4.3 0.3 (s)	0.4 0.2 0.8 1.6 0.2	19.2 23.1 6.0 3.1 0.8	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0	NA NA NA NA NA	NA NA NA NA	6.3 9.0 8.6 11.5 8.6	29.0 42.6 22.0 15.5 9.4	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6 R 39.9 R 27.0
1965 1970 1975 1980 1985 1990	3.3 10.0 7.0 0.6 0.0 0.0	0.3 0.4 0.4 0.4 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s)	(s) (s) (s) (s)	0.0 0.0 0.0 0.0 0.3 0.5	16.9 20.7 4.3 0.3 (s) (s)	0.4 0.2 0.8 1.6 0.2 0.2	19.2 23.1 6.0 3.1 0.8 0.7	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0	NA NA NA NA NA O.0	NA NA NA NA	6.3 9.0 8.6 11.5 8.6 10.2 0.9	29.0 42.6 22.0 15.5 9.4 10.9	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6 R 39.9 R 27.0 R 35.8 R 3.7
1965 1970 1975 1980 1985 1990 1995 2000	3.3 10.0 7.0 0.6 0.0 0.0 0.0	0.3 0.4 0.4 0.4 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2	(s) (s) (s) (s) (s)	0.0 0.0 0.0 0.0 0.3 0.5 0.2	16.9 20.7 4.3 0.3 (s) (s)	0.4 0.2 0.8 1.6 0.2 0.2	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA O.0 0.0 0.0 0.0	NA NA NA NA O.0 0.0	NA NA NA NA NA (s)	6.3 9.0 8.6 11.5 8.6 10.2 0.9	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6 R 39.9 R 27.0 R 35.8 R 3.7 R 3.8
1965 1970 1975 1980 1985 1990 1995 2000 2005	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2	(s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1	16.9 20.7 4.3 0.3 (s) (s) (s) (s)	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0	NA NA NA NA O.0 0.0 0.0	NA NA NA NA (s) (s) (s)	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6 R 39.9 R 27.0 R 35.8 R 3.7 R 3.8 R 3.9
1965 1970 1975 1980 1985 1990 1995 2000 2005 2006	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2	(s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6	16.9 20.7 4.3 0.3 (s) (s) (s) (s) 0.0	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA O.0 0.0 0.0 0.0 0.0	NA NA NA NA O.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.9	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6 R 39.9 R 27.0 R 35.8 R 3.7 R 3.8 R 3.9 R 3.7
1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.2	(s) (s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6	16.9 20.7 4.3 0.3 (s) (s) (s) (s) 0.0 0.0	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA O.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.9	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8	R 12.3 R 18.4 R 17.6 B 24.4	R 41.4 R 60.9 R 39.6 R 39.9 R 27.0 R 35.8 R 3.7 R 3.8 R 3.9 R 3.7
1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007 2008	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.2	(S) (S) (S) (S) (S) (S) (S) (S) (S)	0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6 0.3	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 1.0 0.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA O.0 O.0 O.0 O.0 O.0 O.0	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.9 0.8 1.0	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8	R 12.3 R 18.4 R 17.6 R 24.4 R 17.6 R 24.9 F 2.2 R 2.3 R 1.9 R 1.9	R 41.4 R 60.9 R 39.6 R 39.9 R 27.0 R 35.8 R 3.7 R 3.8 R 3.9 R 3.7
1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007 2008 2009	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.3 0.2 0.2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6 0.3 0.3	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 0.8 0.7 4.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA O.0 O.0 O.0 O.0 O.0 O.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.9 0.8 1.0	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3	R 12.3 R 18.4 R 17.6 R 24.4 R 17.6 R 24.9 R 2.2 R 2.3 R 1.9 R 1.9 R 1.7	R 41.4 R 60.9 R 39.9 R 27.0 R 35.8 R 3.7 R 3.8 R 3.7 R 4.1 R 3.5 R 7.0
1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007 2008 2009 2010	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.3 0.2 0.2 0.2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6 0.3 0.3 0.3	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.0	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 1.0 0.8 0.7 4.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3 5.5	R 12.3 R 18.4 R 17.6 R 24.4 R 17.6 R 24.9 R 2.2 R 2.3 R 1.9 R 1.9 R 1.7	R 41.4 R 60.9 R 39.9 R 27.0 R 35.8 R 3.7 R 3.8 R 3.9 R 4.1 R 3.5 R 7.0 R 7.0
1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007 2008 2009	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.3 0.2 0.2		0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6 0.3 0.3 0.3	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.5 4.1	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 0.8 0.7 4.5 4.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA O.0 O.0 O.0 O.0 O.0 O.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.9 0.8 1.0 0.9 0.8	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3	R 12.3 R 18.4 R 17.6 R 24.4 R 17.6 R 24.9 R 2.2 R 2.3 R 1.9 R 1.9 R 1.7	R 41.4 R 60.9 R 39.6 R 39.9 R 35.8 F 3.7 R 3.8 R 3.9 R 4.1 R 3.7 R 4.1 R 3.7 R 4.1 R 6.7 R 6.6
1965 1970 1975 1985 1985 1990 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013	3.3 10.0 7.6 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.1		0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6 0.3 0.3 0.3	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.0 4.5 4.1	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 0.8 0.7 4.5 4.7 4.4 4.6 4.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3 5.5 5.1 5.4	R 12.3 R 18.4 R 17.6 R 24.9 R 22.2 R 2.3 R 2.3 R 1.9 R 1.7 R 1.7 R 1.7 R 1.5 R 1.5	H 41.4 R 39.6 R 39.6 R 39.7 R 35.8 R 3.7 R 3.8 R 3.7 R 4.1 R 7.0 R 7.0 R 7.0 R 6.7 R 6.7
1965 1970 1975 1985 1990 1995 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.3 0.2 0.2 0.1 0.1 0.1		0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6 0.3 0.3 0.3	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.0 4.5 4.1 4.3	19.2 23.1 6.0 3.1 0.8 0.7 0.6 1.0 0.8 0.7 4.5 4.7 4.6 4.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.8 0.7 0.7 0.8 0.8	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3 5.5 5.1 5.4 5.4	R 12.3 R 18.4 R 17.6 R 24.9 F 2.3 R 2.1 R 1.9 R 1.7 R 1.7 R 1.7 R 1.5 R 1.5 R 1.5 R 1.5	R 41.4 R 60.9 R 39.6 R 39.9 R 35.8 R 3.7 R 3.8 R 3.9 R 4.1 R 7.0 R 7.2 R 6.8 R 7.0
1965 1970 1975 1985 1990 1995 2000 2005 2007 2008 2009 2010 2011 2011 2013 2014	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.6 0.3 0.3 0.3	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.0 4.5 4.1 4.4 4.3	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 0.8 0.7 4.5 4.7 4.4 4.6 4.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.8	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3 5.5 5.1 5.4 5.4	R 12.3 R 18.4 R 17.6 R 24.9 F 2.3 R 2.1 R 1.9 R 1.7 R 1.7 R 1.7 R 1.5 R 1.5 R 1.5 R 1.5	R 41.4 R 39.6 R 39.6 R 39.7 R 35.8 R 3.7 R 4.1 R 3.7 R 4.1 R 7.0 R 6.7 R 6.7 R 6.7 R 6.7 R 6.7
1965 1970 1975 1985 1990 1995 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.3 0.2 0.2 0.1 0.1 0.1 0.1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.3 0.5 0.1 0.6 0.3 0.3 0.3 0.2 0.2 0.2 0.2	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.5 4.3 4.3 4.3	19.2 23.1 6.0 3.1 0.8 0.7 0.6 1.0 0.8 0.7 4.5 4.7 4.6 4.7 4.6 4.4 3.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 5.3 5.5 5.1 5.4 5.4 5.4	R 12.3 R 18.4 R 17.6 R 24.9 R 24.9 R 2.3 R 2.3 R 2.3 R 1.9 R 1.7 R 1.7 R 1.5 R 1.5 R 1.6 R 1.6	R 41.4 R 60.9 R 39.6 R 39.7 R 35.8 R 3.7 R 3.8 R 3.9 R 4.1 R 7.0 R 7.0 R 6.8 R 7.1 R 6.8
1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.3 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.1 0.1 0.1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.5 4.3 4.3 4.3	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 0.8 0.7 4.5 4.7 4.4 4.6 4.7 4.6 4.7 8.3.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7 0.8	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3 5.1 5.1 5.4 5.4 5.4 5.4 5.4	R 12.3 R 18.4 R 17.6 R 24.9 R 22.3 R 2.3 R 2.3 R 1.9 R 1.7 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5	R 41.4 R 39.6 R 39.6 R 39.7 R 35.8 R 3.7 R 3.8 R 3.7 R 4.1 R 7.7 R 6.7 R
1965 1970 1975 1985 1995 1995 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.5 4.3 4.3 4.3	19.2 23.1 6.0 3.1 0.8 0.7 0.6 1.0 0.8 0.7 4.5 4.7 4.6 4.7 4.6 4.7 4.6 4.7 8.3.8 8.3.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.7 0.8 0.8 0.7	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.8 5.3 5.5 5.1 5.4 5.4 5.4 4.4 4.4	R 12.3 R 18.4 R 17.6 R 24.9 R 22.2 R 2.3 R 2.3 R 2.3 R 1.9 R 1.7 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5	R 41.4 R 39.6 R 39.6 R 39.7 R 35.8 R 3.7 R 3.8 R 3.7 R 4.1 R 7.0 R 7.0 R 7.1 R 6.8 R 6.8 R 7.1 R 6.8 R
1965 1970 1975 1985 1990 1995 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1	(s)	0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.5 4.1 4.3 4.4 4.3 4.4 3.3 8.3 8.3 8.2.8	19.2 23.1 6.0 3.1 0.8 0.7 0.6 1.0 0.8 0.7 4.5 4.7 4.6 4.7 4.6 4.4 3.7 8.8 8.3.6 8.3.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7 0.7 0.8	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 5.3 5.5 5.1 5.4 5.4 5.4 5.4 4.4 4.2 8 3.7	R 12.3 R 18.4 R 17.6 R 24.9 R 22.2 R 2.3 R 2.3 R 2.3 R 1.9 R 1.7 R 1.5 R 1.5 R 1.5 R 1.6 R 1.6 R 1.1 R 1.1	R 41.4 R 39.6 R 39.6 R 39.6 R 35.8 R 3.7 R 3.8 R 3.7 R 4.3.7 R 6.7.0 R 6.7.0 R 6.5.5 R 6.5.4 R 6.5.4 R 6.5.4
1965 1970 1975 1985 1990 1985 1990 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2017 2018 2019 2019	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	(s)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.0 4.5 4.1 4.3 3.3 8.3.8 8.2.8	19.2 23.1 6.0 3.1 0.8 0.7 0.5 0.6 1.0 0.8 0.7 4.5 4.7 4.4 4.6 4.7 4.6 4.7 7 8.3.8 8.3.8 8.3.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA O.0	NA NA NA NA (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7 0.7 0.6 0.7	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 1.6 5.3 5.5 5.1 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.3	R 12.3 R 18.4 R 17.6 R 24.9 R 22.2 R 2.3 R 2.3 R 2.3 R 1.9 R 1.7 R 1.5 R 1.5 R 1.5 R 1.6 R 1.6 R 1.1 R 1.1	R 41.4 R 39.9 R 39.9 R 35.8 R 3.9 R 35.8 R 3.9 R 4.1 R 7.7 R 6.6 R 6.7 R 6.6 R 6.7 R 6.6 R 6.5 R
1965 1970 1975 1985 1990 1995 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.5 4.1 4.3 4.4 4.3 4.4 3.3 8.3 8.3 8.2.8	19.2 23.1 6.0 3.1 0.8 0.7 0.6 1.0 0.8 0.7 4.5 4.7 4.6 4.7 4.6 4.4 3.7 8.8 8.3.6 8.3.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7 0.7 0.8	29.0 42.6 22.0 15.5 9.4 10.9 1.4 1.5 1.8 1.8 5.3 5.5 5.1 5.4 5.4 5.4 5.4 4.4 4.2 8 3.7	R 12.3 R 18.4 R 17.6 R 24.9 F 2.2 R 2.3 R 1.9 R 1.7 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5	R 41.4 R 39.6 R 39.6 R 39.6 R 35.8 R 3.7 R 3.8 R 3.7 R 4.3.7 R 6.7.0 R 6.7.0 R 6.5.5 R 6.5.4 R 6.5.4 R 6.5.4
1965 1970 1975 1980 1985 1990 1995 2000 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2019 2020 2019 2020 2020 2020	3.3 10.0 7.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.3 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0	1.8 2.2 0.9 1.1 0.2 (s) 0.1 0.2 0.2 0.3 0.2 0.3 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.0 0.0 0.0 0.0 0.3 0.5 0.2 0.1 0.6 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	16.9 20.7 4.3 0.3 (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.4 0.2 0.8 1.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 4.5 4.1 4.3 4.1 4.3 4.1 3.3 3.5 8.2 8.2 8.2 8.2	19.2 23.1 6.0 3.1 0.8 0.7 0.6 1.0 0.8 0.7 4.5 4.7 4.6 4.4 4.7 4.6 4.4 3.7 R 3.8 R 3.1 3.0 3.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NA NA NA NA O.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	NA NA NA NA (s) (s) (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6.3 9.0 8.6 11.5 8.6 10.2 0.9 0.9 0.8 1.0 0.9 0.8 0.7 0.7 0.7 0.8 0.8 0.7 0.7 0.6 0.6 0.7	29.0 42.6 22.0 15.5 9.4 10.9 1.5 1.8 1.8 1.6 5.3 5.5 5.1 5.4 5.4 5.4 5.2 4.4 8.4.4 4.2 8.3.7 3.6 4.4	R 12.3 R 18.4 R 17.6 R 24.9 F 22.2 R 2.3 R 2.3 R 1.9 R 1.7 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5 R 1.5	R 41.4 R 39.9 R 39.9 R 39.9 R 35.8 R 3.9 R 3.8 R 3.9 R 4.1 R 7.0 R 6.8 R 7.7 R 7.7 R 6.8 R 7.7 R

Hydro-

electric power e,f

Million

kWh

Biomass

Wood and

waste f,g

Losses

and co-

products h

Geo-

thermal f

Natural

gas a

Rillion

cubic feet

Coal

Thousand

short tons

Year

Distillate

fuel oil

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Solar <sup>f,i</sup>

Electricity j

End use f,k

Million

kWh

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>&</sup>lt;sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. --= Not applicable. NA = Not available.

KWH = Nilowatirours. — - Not applicable. NA = Not available. Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: • Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

D Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, District of Columbia

1							Po	etroleum							
S		Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Т	Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
R	1960	. 8	(s) 0	0	305	(s)	.0	112 59 53	4,872	28	5,317	32 0			
	1965 1970	(s)	0 (s)	0	874 492	(s) (s)	(s)	59 53	5,391 5,623	6 13	6,331 6,182	0			
	1975	(s)	(s)	0	820	(3)	(s) (s) 0	46	5,670	350	6.887	0			
0	1980 1985		Ó	0	820 587	(s)	329	46 54 49	5,670 3,841 3,716	350 59 202	6,887 4,870	106			
C	1985 1990	0	(s) (s)	0	898 804	1	5	49 55	3,716 3,882	202	4,873 4,750	130 142			
т.	1995	Ö	(s)	4	634	i	ő	55 53 56 47	3,997	ő	4,688	170			
	2000	0	(s)	2	728 541 242	1	0	56	3.993	0	4 779	179			
	2005 2006	0	1	4	541	1 (s)	0	47 46	3,007 3,010	0	3,600	326			
	2007	0	(s)	6	274	(s)	0	48	2.978	0	3,600 3,306 3,307	305 325			
<u> </u>	2008 2009	0	(s)	4	377 297	ì	Ō	44 40	2,448 2,590	Ó	2,875	312 309			
O	2009 2010	0	1	3	297 333	1	0	40 14	2,590 2,473	0	2,875 2,931 2,822	309 315			
	2010	0	3	1	395	i	0	13	2,473	0	2,022	319			
F	2011 2012	Ö	2	i	395 376	(s)	ŏ	13 11	2,500 2,238	ŏ	2,910 2,627	319 325			
	2013	0	2	1	338 392 336	1	0	11	2 269	0	2 619	325			
	2014 2015	0	2 2	0	392	16	0	13 14	2,517 2,546	0	2,925 2,912	331 334			
_	2016	ő	2	Ő	323	4	0	14	2,723	ő	3,064	331			
C	2017	Ö	2	Ō	323 222 169	.0	Ó	10	2,723 2,362	Ó	3,064 2,594 2,926	335 337			
	2018 2019	0	2	0	169 383	(s)	0	11 12	2,746 2,667	0	2,926 3,063	337 350			
0	2019	0	1	0	265	(s)	0	9	2,007	0	2,474	332			
	2020 2021	Ö	1	Ö	265 R 402	(s) (s)	Ö	R 11	2,199 2,325	Ö	2,474 R 2,741	332 272			
L	2022	0	2	0	405	1	0	11	2,214	0	2,634	251			
U								Tr	illion Btu						
U	1960	0.2	(s) 0.0	0.0	1.8	(s)	0.0	0.7	25.6	0.2	28.2	0.1	28.5	R <sub>0.2</sub>	28.8 33.8
M	1965	(s) (s)		0.0 0.0	5.1 2.9	(s) (s)	(s) (s)	0.4 0.3	28.3 29.5	(s) 0.1	33.8 32.8	0.0 0.0	33.8 32.8	0.0 0.0	33.8 32.8
IVI	1965 1970 1975	(s)	(s) (s)	0.0	4.8	(s)	0.0	0.3	29.8	2.2	37.0	0.0	37.1	0.0	37.1
D	1980	0.0	Ô.Ó	0.0	3.4	(s)	1.9	0.3 0.3	20.2	2.2 0.4	26.2	0.4	26.5	0.0 R 0.8	R 27.3
В	1980 1985 1990	0.0	0.4	0.0	5.2	(s)	(s) (s) 0.0	0.3 0.3 0.3	19.5 20.4	1.3	26.4	0.4 0.5 0.6	27.2	R 0.9	R 27.3 R 28.1 R 27.4 R 27.1
1	1990	0.0	0.3 0.3	0.0 (s)	4.7 3.7	(S)	(S)	0.3	20.4	(s) 0.0	25.5 24.8	0.5 0.6	26.2 25.7	R 1.2 R 1.4	R 27.4
	2000	0.0	0.3	(s)	4.2	(s)	0.0	0.3	20.8	0.0	25.4	0.6	26.3	R <sub>15</sub>	R 27.8 R 23.4
Α.	2005	0.0	0.6	(s)	3.1	(s)	0.0	0.3 0.3 0.3	15.6	0.0 0.0 0.0	19.1	1.1	20.8	R 2.6	R 23.4
Α	2006	0.0	0.5 0.3	(s) (s)	1.4 1.6	(s) (s)	0.0 0.0	0.3	15.6 15.3	0.0	17.3 17.2	1.0 1.1	18.9 18.6	R 2.6 R 2.5 R 2.5 R 2.3 R 2.3 R 2.2 R 2.2 R 2.2 R 2.2 R 2.1 R 2.1 R 2.1 R 2.1 R 2.1	R 21.4 R 21.1
	2007 2008	0.0 0.0	0.3	(s)	2.2	(s)	0.0	0.3 0.3	15.3 12.5	0.0 0.0	15.0	1.1	16.3	R 2.3	R 21.1 R 18.6 R 19.5 R 19.0
	2009	0.0	1.0	(s)	1.7	(s)	0.0	0.2	13.2	0.0	15.2	1.1	17.3	R 2.3	R 19.5
	2010 2011	0.0 0.0	1.1	(s)	1.9	(s)	0.0	0.1 0.1	12.5 12.7	0.0 0.0	14.5 15.0	1.1 1.1	16.7 18.7	H 2.3	H 19.0 R 21.0
	2011	0.0	2.6 2.0	(s)	2.3	(S) (S)	0.0 0.0	0.1	11.3	0.0	13.6	1.1	16.7	R 2.2	R 18 9
	2013	0.0	2.4	(s) (s)	2.2 1.9	(s)	0.0	0.1	11.5	0.0	13.5	1.1	17.0	R 2.2	R 18.9 R 19.2 R 20.6
	2014	0.0	2.2	(s) 0.0	2.3	(s)	0.0	0.1	12.7	0.0	15.1	1:1	18.4	R 2.2	R 20.6
	2015 2016	0.0	1.7 1.9	0.0	1.9 1.9	0.1 (s)	0.0 0.0	0.1	12.9	0.0	15.0 15.7	1.1 1.1	17.8 18.8	H 2.2	R 20.0 R 20.0
	2017	0.0 0.0	1.6	0.0	1.3	0.0	0.0	0.1 0.1	13.8 11.9	0.0 0.0	15.7 13.3	1.1	16.0	R 2.1	R 20.9 R 18.1
	2018	0.0	1.8	0.0	1.0	(s)	0.0	0.1	13.9	0.0	14.9	1.1	17.9	R 2.1	R 19.9 R 21.5
	2019	0.0	2.4	0.0	2.2	(s)	0.0	0.1	13.5	0.0	15.8	1.2	19.4	H 2.1	H 21.5 P 16.4
	2020 2021	0.0 0.0	0.8 1.2	0.0 0.0	1.5 R 2.3	(S) (S)	0.0 0.0	0.1 0.1	11.1 11.7	0.0 0.0	12.7 R 14 1	1.1 0.9	14.6 R 16.3	R 1.5	" 10.4 R 17.8
	2022	0.0	1.9	0.0	R 2.3 2.3	(s)	0.0	0.1 0.1	11.7 11.2	0.0 0.0	R 14.1 13.6	0.9 0.9	R 16.3 16.3	1.4	R 17.8 17.7
						. ,									

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

ossitilate rulei oii.

C Hydrocarbon gas liquids, assumed to be propane only.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>– – =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

D

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, District of Columbia

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	446	0	4	0	9	12 14	0	3		0	NA	NA	0	
1965 1970	446 293 673	0	4 1,135	0	10 2,755	14 3,889	0	3		0	NA	NA NA	0	
1975	111	0	90	0	2 088	2.178	0	1		0	NA NA	NA NA	0	
1980	0	0	90 109 66	0	1,462 250	1.572	Ö	0		Ö	NA	NA	0	
985 990	0	0	66 72	0	250 798	316 871	0	0		0	0	0	0	
995	0	0	72 75 169 540	0	798 402 209	477 379	ő	ő	==	0	0	0	0	
.000	0	0	169	0	209	379	0	0		0	0	0	0	
2005	0	0	540 231	0	0	540 231	0	0		0	0	0	0	
006 007	ŏ	ŏ	231 197	ŏ	ŏ	231 197	ŏ	ŏ		ŏ	ŏ	ŏ	ŏ	
.008	0	0	163	0	0	163	0	0		0	0	0	0	
2009 2010	0	0	85 434	0	0	85 434	0	0		0	0	0	0	
011	Ö	Ĭ	275 26	Ö	Ö	275 26	Ö	Ŏ		Ö	Ö	Ö	Ŏ	
012	0	0	26	0	0	26	0	0		0	0	0	0	
2013 2014	0	0	0	0	0	0	0	0		0	0	0	0	
015	Ö	Ō	Ō	Ö	Ö	Ö	Ö	Ö		Ö	Ö	Ō	Ō	
016 017	0	(s)	0	0	0	0	0	0		0	0	0	0	
017	0	0	0	0	0	0	0	0		0	0	0	3	
2018 2019	Ō	Ō	Ō	Ō	Ö	Ö	Ö	Ō		Ō	9	0	Ō	
2020 2021	0	0	0	0	0	0	0	0		0	13 18	0	0	
2022	Ő	Ő	ŏ	ő	Ö	ő	Ŏ	ő		ő	22	ő	ő	
							Trillion Btu							
1960 1965	12.2 7.9	0.0 0.0	(s) (s) 6.6 0.5 0.6 0.4	0.0 0.0	0.1 0.1	0.1 0.1	0.0 0.0	(s) (s)	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	<sup>R</sup> 12.3 8.0
1970	17.4	0.0	(s) 6.6	0.0	173	23.0	0.0	(s)	0.0	0.0	NA NA	NA NA	0.0	41.4
1975 1980 1985	2.8 0.0	0.0	0.5	0.0 0.0	13.1 9.2	13.6	0.0 0.0	(s)	0.0	0.0	NA	NA	0.0	41.4 16.5 9.8 2.0 5.4 3.0
1980	0.0 0.0	0.0 0.0	0.6	0.0 0.0	9.2 1.6	13.6 9.8 2.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0	0.0 0.0 0.0	9.8
1990 1995	0.0	0.0	0.4 0.4 0.4	0.0	5.0 2.5	5.4 3.0	0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
1995	0.0	0.0 0.0	0.4	0.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
000	0.0	0.0 0.0	1.0	0.0 0.0	1.3	2.3 3.1	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	2:
005 006	0.0 0.0	0.0	3.1 1.3	0.0	0.0 0.0	1.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	3. 1.: 1.
007	0.0	0.0	11	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.
008 009	0.0 0.0	0.0 0.0	0.9 0.5 2.5	0.0 0.0	0.0 0.0	0.9 0.5 2.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.
010	0.0	0.0	2.5	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0. 0. 2. 2.
011	0.0	1.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	2.
012 013	0.0 0.0	0.0 0.0	0.1 0.0	0.0 0.0	0.0 0.0	0.1 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0. 0.
014	0.0	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0 0.0	0. 0. 0.
2015	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0 0.0	0.0 0.0	0.
016 017	0.0 0.0	(s) 0.0	0.0 0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.8 0.0	0.0 0.0	0.0 0.0	0.0	0.0 (s)	U. (s
2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	(s)	_ (s
2019 2020	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	H (s)	0.0 0.0	0.0	H (s
2021	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	R (s) R (s) R 0.1	0.0	(s) (s) 0.0 0.0 0.0	0.8 (s (s R (s R 0.1
2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Florida

						Petroleum								
						retroleum				_	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	d barrels
1960	1,104	138	8,621	4,936	9,482	43,148	30,199	13,050	109,435		278	0	NA	NA
1965 1970	2,323 5,131	185 337 337	12,279 15,639	5,663 7,828 7,535 7,871	17,525 23,840	53,136	43,344 53,642	14,063 12,593	109,435 146,009 189,797 206,964 234,303 252,546 237,970 243,506	0	298 292	Ö	NA NA	NA NA
1970 1971	5,131 5,124	337 337	15,639 16,457	7,828 7,535	23,840 26,289	53,136 76,254 81,178	53,642 62,546	12,593 12,959	189,797	0	292 253	0	NA NA	NA NA
1972	5,464	299	19,401	7,871	28,689	90,105 99,440	76 305	11.931	234,303	66	238	0	NA	NA NA
1973	6.641	311	22 815	8 390	27 897	99,440	81,667 74,855 79,315	12,336 11,433 8,510	252,546	4,681 7,877	234	0	NA	NA
1974 1975	6,399 5,779	290 280	22,482 23,387	7,400 7,478	23,657 24,224	98,142 100,592	74,855 79,315	11,433 8,510	237,970 243,506	7,877 8,370	251 234	0	NA NA	NA NA
1976 1977	6,089 6,915	289 302	24,507 29,091	8,109 8,881	25,102	103,961 107,781 113,292 111,222 109,279	89,695 83,086	8,906 9,457	260,280 265,596	8.648	259 243	Ö	NA NA	NA NA
1977	6,915	302	29,091 30,489	8,881 8,182	27.301	107,781	83,086	9,457	265,596	17,557	243	0	NA NA	NA NA
1978 1979	7,444 8,528	318 344 317	29,113	8,678	28,011 31,217	111,222	88,698 96,290	10,224 10,262	278,897 286,781 291,255 287,033 253,219	15,810 15,391	228 241	0	NA NA	NA NA
1980	9.543	317	29,431	10 718	35.911	109,279	96.756	9.161	291,255	16 737	215	0	NA	NA
1981 1982	9,969 9,990	338 325	29,911 22,927	9,924 8,886	35,598 33,730	111,902 114,113	90,409 64,481	9,288 9,081	287,033 253 219	14,448 19,319	180 261	0	167 245	NA NA
1983 1984	13,080	306 303	27,963 29,563	8,936 8,715	30,140 24,240	114,113 118,342 121,475 125,346 131,092 137,775 141,728 142,220	58,722 42,438	9,885 11,826	253,988 238,257	14,805 24,078	220 213	ŏ	830	NA NA
1984	15,478 19,305	303	29,563	8,715 9,932	24,240 23,101	121,475	42,438 37,777	11,826	238,257 240,426	24,078	213	0	1,140	NA
1985 1986	18,699	290 289	31,906 32,892	10.568	25,022	125,346	57,612	12,365 12,947	270,133	23,461 22,036	244 212	0	1,093 725	NA NA
1987	23.644	300	34.888	8,794 8,020 8,017	26.502	137,775	45 688	11.837	270,133 265,484	18.773	217 209 234	Ö	340	NA
1988 1989	24,595 25,639	293 324	36,088 35,628	8,020	31,960 33,566	141,728	53,941 53,387	12,186 10,509	283,924	26,198 20,916	209	0	185 224	NA NA
1990	25,512	328	35,310	7.744	31,958	142,351	54.283	10,309	281.796	21,780	175	0	183	NA NA
1990 1991	26.230	328 344	35,310 32,823	7,744 7,959	31,958 25,048	142,351 141,440 143,176 150,283 152,338	54,283 59,651	10,149 10,296	263,484 283,924 283,326 281,796 277,216 281,251 290,254 299,585	21,780 20,508	175 263	0	183 228	NA NA
1992 1993	26,685 26,800	354 350	36,104 24,134	7,992 8,070	24,436 26,644	143,176 150,283	59,648 69,882	9,896 11,240	281,251 290,254	25,116 25,887	236 211	0	229 131	NA NA
1994	27.348	391 561	34.227	7,430 7,796	28.640	152,338	66.838	10,112 9,538	299,585	26.682	274 231	ő	106 57	NA
1995	28,223	561	39,733	7,796	28,045	157,657 159,028	47,245 47,414	9,538	290,015	28,741	231	0	57	NA NA NA
1996 1997	30,551 30,842	534 522	38,333 41.584	8,081 5,839	29,345 30,520	159,028	47,414 49.697	9,492 10,157	291,693 299,676	25,470 22,968	216 241	0	20 34	NA NA
1997 1998	30,841	522 504	41,584 43,644	5,839 6,269	30,520 28,508	169,201	49,697 70,590	10,157 12,037	299,676 330,248	22,968 31,115	241 199	Ö	34 35 24 44	NA NA
1999 2000	29,368 31,100	559 542	46,011 47,692	7,170 7,386	28,977 35,134	173,543	63,926 65,253	12,113 10,739	331,741 344,540	31,526 32,291	140 87	0	24	NA NA
2001	29.927	543	49,243	7,170	30,658	181,063	69,088	12,719	349,941	31,583	1/18	0	26	2
2002	29,345	689 690	49,243 50,084 55,243	7,170 6,047 6,259	30,658 27,035	159,026 161,878 169,201 173,543 178,336 181,063 188,082 191,578	69,088 55,210 53,424	12,719 16,182 17,860	342,639	31,583 33,704	184	0	11	2 3
2003	29,450 28,689	690 734	55,243 57 724	6,259 7 498	25,653 29,246	191,578 201 705	53,424 62 471	17,860 20,646	349,941 342,639 350,017 379,291 387,065	30,979 31,216	184 263 265 266	0	0	5
2004 2005	27.672	734 778	57,724 60,982	7,498 6,979	27.891	201,705 207,482	62,471 61,033	20,646 22,698	387,065	31,216 28,759	266	Ö	1,269	15
2006 2007	28,883 29,925	892 917	62,235 55,874	7,152 6,254	27,631 31,161	210,006 208,744 199,749 200,021 196,374	40,915 38,786	22,338 17,555 14,552	370,279 358,373	31,426 29,289	203 154 206	0	1,806 2,621	45
2008	29.150	943	50 442	5.631	38.621	199.749	19.688	14,552	328.683	32.133	206	0	13.567	52
2009	24,400	1,055	45,433 51,184	5,530	31,477	200,021	13,723	11,761	328,683 307,945 331,570 314,209 304,568	32,133 29,118	208	0	13,567 17,043	55
2010	26,543 23,294	1,158	51,184 47,600	5,519 5,201	42,533 43,176	196,374	23,424	12,536	331,570	23,936	177	0	17,095	44 151
2011 2012	20,433	1,328	47,699 46,149	4,562	42,961	192,098 191,725 196,014	16,025 11,886	10,010 7,286	304,568	22,015 17,870	182 151	ő	17,339 18,351	130
2013	21,480	1,226	48,764	4,365	44.364	196,014	9,755	9 898	313,161	26,526	254	0	18,825 18,574	653
2013 2014 2015	23,630 19,733	943 1,055 1,158 1,218 1,328 1,226 1,215 1,346	48,764 49,696 52,967	5,631 5,530 5,519 5,201 4,562 4,365 4,611 4,532	46,402 48,938	198,398 208,479	9,755 9,511 8,889	9,062 _ 9,876	313,161 317,681 333,680 R 343,165 R 347,485 R 362,934	26,526 27,868 28,122	211 244	0	18,574 19,196	2 5 15 45 60 52 55 44 151 130 653 603 742
2016 2017	18,202	1,383 1,388 1,477	54.112	5,055 5,011	50.441	213,200 216,683 220,211 220,094	9,399 9,750	9,076 R 10,957 R 9,187 R 10,260 R 9,299	R 343,165	29,320 29,146	175	ŏ	20 105	1,360 1,441
2017	17,414 13,880	1,388	54,256 58,240	5,011	52,598 54,539	216,683	9,750 14,522	H 9,187	H 347,485	29,146	218	0	20,972	1,441
2018 2019	9,950	1,543	57,087	5,163 5,067	54,539 56,371	220,094	8,750	R 9,299		29,312 29,108	233 210	0	21,927 21,816	628
2020	7.716	1,578	53 020	5,145	33.663	193 841	1,335	n 9 689	R 296,694	29.419	232	0	19 164	655
2021 2022	8,539 7,341	1,543 1,578 R 1,552 1,619	R 55,543 57,565	5,145 5,348 5,211	48,850 55,010	213,383 217,185	8,750 1,335 11,242 11,419	R 9,825 9,843	R 296,694 R 344,191 356,233	R 29,515 30,768	252 231	0	21,316 21,877	803 628 655 R 545 459
	7,0-11	1,010	07,000	0,211	00,010	217,100	11,410	0,010	000,200	55,766	201	-	21,077	-100

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Florida (trillion Btu)

					Fossil	fuels						Fossil fuels	
						Petroleum						(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>2</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	27.2	142.9	50.2	18.9	51.5	226.7 279.1 400.6 426.4 473.3 522.4 515.5	189.9	74.8	611.9	782.0	142.9	50.2	226.7
1960 1965 1970	55.2 116.7	142.9 191.7	50.2 71.5 91.1 95.9	21.7	97.2 133.2 147.0	279.1	272.5 337.2 393.2	74.8 80.7 73.7 76.9	822.7 1,065.6 1,168.1 1,328.4 1,431.8 1,347.1 1,378.2 1,477.4 1,502.0 1,580.8 1,629.3 1,650.7 1,624.2 1,416.3 1,417.2 1,318.9 1,324.4 1,503.3 1,470.0 1,579.8 1,574.6 1,567.4	1 060 6	142.9 191.7	50.2 71.5 91.1 95.9	226.7 279.1 400.6 426.4
1970	116.7	350.6 350.5	91.1	29.9 28.8	133.2	400.6	337.2	73.7	1,065.6	1,533.0 1,635.8 1,763.2 1,909.3 1,795.7	350.6 350.5 311.2 324.9 302.0	91.1	400.6
1971	117.2	350.5	95.9 113.0	30.0	147.0	420.4 473.3	393.2 470.7	76.9 71.6	1,108.1	1,035.8	350.5	95.9 113.0	420.4 172.2
1972 1973 1974	123.6 152.6 146.6	311.2 324.9 302.0	132.9	32.0	160.7 156.4 132.3	522 4	479.7 513.4 470.6	71.6 74.7 69.6	1,320.4	1,703.2	324.9	113.0 132.9 131.0	473.3 522.4 515.5
1974	146.6	302.0	131.0	32.0 28.1	132.3	515.5	470.6	69.6	1,347.1	1,795.7	302.0	131.0	515.5
1975 1976	133.5 141.8	292.1 300.9	136.2	28.3 30.7	135.7	528.4	498.7 563.9 522.4	50.9	1,378.2	1,803.8 1,920.1	292.1	136.2 142.8	528.4 546.1
1976	141.8	300.9	142.8	30.7	140.7	546.1	563.9	53.2	1,477.4	1,920.1	300.9	142.8	546.1
1977	159.9	315.9	169.5	33.5	153.1	566.2	522.4	57.4	1,502.0	1,977.9 2,089.6	315.9	169.5 177.6	566.2
1978 1979	159.9 175.5 202.3	333.3 357.0	177.6	30.9 32.3 39.5 36.6	132.3 135.7 140.7 153.1 157.2 175.1 201.6 200.0 189.3 169.2	528.4 546.1 566.2 595.1 584.2 574.0 587.8 599.4 621.7	557.6 605.4 608.3 568.4	50.9 53.2 57.4 62.3 62.7 55.9 57.1	1,580.8	2,089.6	292.1 300.9 315.9 333.3 357.0	169.6	566.2 595.1 584.2 574.0 587.8 599.4 621.7
1980	225.5	329.6	171.4	39.5	201.6	574.0	608.3	55.9	1,650.7	2,205.7	329.6	171 4	574.0
1981	225.5 236.5 240.2	329.6 357.5	174.2	36.6	200.0	587.8	568.4	57.1	1,624.2	2,205.7 2,218.2	329.6 357.5 339.1 321.0 318.2 305.1 298.9 313.6 305.8	174.2	587.8
1982	240.2	339.1 321.0	133.6	32.5 33.0	189.3	599.4	405.4 369.2	56.1 61.3	1,416.3	1,995.5 2,057.2	339.1	133.6 162.9	599.4
1983	318.9	321.0	162.9	33.0	169.2	621.7	369.2	61.3	1,417.2	2,057.2	321.0	162.9	621.7
1984	378.7 472.4 459.4	318.2 305.1 298.9	1/2.2	32.6 37.1	135.6 129.2 140.1 148.4 179.3	638.1 658.4	266.8 237.5 362.2	73.6 76.3 81.1	1,318.9	2,015.7	318.2	172.2 185.9 191.6	638.1 658.4 688.6 723.7 744.5 747.1
1985 1986	459.4	298.9	191.6	37.1 39.7	140.1	688.6	362.2	70.3 81.1	1,524.4	2,101.8 2,261.6	298.9	191.6	688.6
1987 1988	586.6	313.6	203.2	33.1 30.1	148.4	723.7	287.2	74.3 76.6	1,470.0	2,370.2	313.6	203.2 210.2	723.7
1988	586.6 611.5	313.6 305.8	210.2	30.1	179.3	744.5	287.2 339.1	76.6	1,579.8	2,370.2 2,497.1	305.8	210.2	744.5
1989	636.6 633.4 650.3	337.2 342.0	207.5	30.2	188.5 179.6 140.8	747.1	335.6 341.3 375.0	65.6	1,574.6	2,548.4 2,542.8 2,556.5	337.2 342.0	207.5 205.7 191.2	747.1
1990	633.4	342.0	205.7	29.1 29.9	1/9.6	747.8	341.3	64.0	1,567.4	2,542.8	342.0 361.0	205.7	747.8 743.0
1991	650.3 649.4	361.0 371.1	210.2	29.9	140.8 137.5	743.0 752.1	375.0 375.0	62.8	1,545.2	2,556.5	301.0	191.2 210.3	743.U 752.1
1992 1993	649.4 654.5	368.0	140.6	30.0 30.2	137.5 150.3	783.6	375.0 439.3	71.8	1.615.8	2,588.3 2,638.4	368.0	210.3 140.6	784.0
1994	663.4	417.7	199.2	27.9	162.1	793.9	420.2	64.5	1,667.9	2,749.0	417.7	199.2	794.3
1994 1995 1996	663.4 686.9	579.3	231.2	27.9 28.8 29.7	162.1 159.0 166.4	820.2	420.2 297.0 298.1	65.6 64.0 65.4 62.8 71.8 64.5 60.5 59.7	1,596.9	2,749.0 2,863.1 2,912.6	371.1 368.0 417.7 579.3 561.1	199.2 231.2 223.1	743.0 752.1 784.0 794.3 820.4 828.7 842.6 880.4
1996	745.8	561.1	223.1	29.7	166.4	828.6	298.1	59.7	1,605.7	2,912.6	561.1	223.1	828.7
1997 1998	751.3 749.5 716.3	547.2	242.0	22.0 23.7	173.0 161.6	842.5	312.4 443.8 401.9 410.2	62.3	1,654.3	2,952.8 3,116.1	547.2 529.6 583.4 574.5	242.0 254.0 267.7	842.6
1996	749.5 716.3	529.6 583.4	254.0 267.7	26.8	161.6	000.2 902.7	443.6 401.9	73.7 73.9	1,037.1	3,116.1	529.0 583.4	254.0 267.7	900.4 902.8
2000	760.4 725.9 719.7	529.6 583.4 574.5	277.5	27.5	164.3 199.2 173.8	927.4	410.2	73.7 73.9 66.0 79.0	1.907.8	3,137.0 3,242.7	574.5	277.5	927.5
2001	725.9	569.8	286.5	26.5 22.7	173.8	941.6	434 4	79.0	1,941.9	3 237 5	569.8	286.5	941.7
2002	719.7	708.6	291.4	22.7	153.3	977.8	347.1	100.0	1,892.4	3,320.7	569.8 708.6 714.8	291.4 321.5	977.8
2003	723.8 699.1 672.3	714.8	321.5	23.4	153.3 145.5 165.8 158.1	995.6	335.9	100.0 109.9 124.3 135.2	1,931.8	3,370.4	714.8	321.5	995.6
2004 2005	672.3	757.7 805.4	335.8 354.8	28.3 26.1	165.8	1,048.1	392.8 383.7	124.3	2,095.1	3,551.8 3,608.5	757.7 805.4	335.8 354.8	1,048.1 1,077.2
2006	696.2	917 5	361.2	26.5	156.7	638.1 658.4 688.6 723.7 744.5 747.1 747.8 743.0 752.1 783.6 793.9 820.2 828.6 842.5 880.2 902.7 927.4 941.6 977.8 995.6 1,048.1 1,072.8 1,082.6 1,082.6	257.2	134.8	1,667.9 1,596.9 1,605.7 1,654.3 1,837.3 1,907.8 1,941.9 1,832.4 1,931.8 2,095.1 2,130.8 2,019.0 1,938.4 1,717.5	3.632.7	917.5	361.2	880.4 902.8 927.5 941.7 977.8 995.6 1,048.1 1,077.2 1,088.9 1,073.4
2006 2007	696.2 720.8 693.2	943.8 970.0	323.2	26.5 23.3 21.1	156.7 176.7 219.0	1,064.3	257.2 243.8 123.8	134.8 107.1 89.2	1,938.4	3,632.7 3,603.1 3,380.7	917.5 943.8 970.0	361.2 323.2 291.6	1,073.4
2008	693.2	970.0	291.6	21.1	219.0	972.9	123.8	89.2	1,717.5	3,380.7	970.0	291.6	1,019.9
2009	581.5 637.4	1,081.7	260.1	20.8	178.5 241.2	959.1	86.3 147.3	71.8	1,576.6	3,239.9	1,081.7	262.5 295.6	1,018.1
2010	557.4 552.7	1,180.5	293.9 271.1	21.2 20.0	241.2 244.8	935.8 012.5	147.3	/b.U 61.3	1,715.4	3,533.3 3 300 0	1,180.5	295.0 275.2	995.0 072.6
2011 2012	552.7 483.0	1,081.7 1,180.5 1,236.0 1,348.4 1,245.3 1,241.2	113.0 132.9 131.0 136.2 142.8 169.5 177.6 169.6 171.4 174.2 133.6 162.9 172.2 185.9 191.6 203.2 210.2 207.5 205.7 191.2 210.3 140.6 199.2 231.2 223.1 242.0 267.7 277.5 286.5 291.4 321.5 335.8 364.8 361.2 322.2 291.6 260.1 293.9 271.1 261.8 272.9 278.5 299.1	17.5	243 6	972.9 959.1 935.8 912.5 906.9 926.5 939.2 987.6 1,007.9 1,022.0 1,036.5 1,036.0 912.7	100.7 74.7	45.4	1,549.9	3,239.9 3,533.3 3,399.0 3,381.3	1.348 4	275.2 266.1	1,018.1 995.0 972.6 970.5
2013 2014	505.2 557.9	1,245.3	272.9	16.8 17.7	251.5 263.1	926.5	61.3	59.9	1,588.9	3,339.4	1,245.3	281 0	991.8
2014	557.9	1,241.2	278.5	17.7	263.1	939.2	61.3 59.8 55.9	55.5	1,613.8	3,339.4 3,413.0	1,241.2	286.4 305.2	1,003.7
2015	466.5	1,378.1	296.2	17.4	277.5	987.6	55.9	60.5 B 60.5	1,695.1	3,539.7 R 3,579.0 R 3,587.3 R 3,683.0 R 3,617.2 R 3,285.4	1,378.1	305.2	1,054.3
2016 2017	426.2 407.5	1,414.4 1 421 3	299.1 300.0	19.4 19.2	286.0 298.2	1,007.9	59.1 61.3	11 66.9 R 56 a	1,/38.4 R 1 758 5	3,5/9.0 R 3 587 3	1,414.4	311.5 312.4	1,077.7
2017	327.8	1,421.3	324 1	19.8	309.2	1,022.0	91.3	R 63 0	R 1.844 0	R 3 683 0	1,421.3	335 4	1 112 9
2018 2019	327.8 233.5	1,578.3	318.1	19.5	309.2 319.6	1,036.0	91.3 55.0	R 57.2	R 1,805.4	R 3,617.2	1,578.3	335.4 328.8	1,111.9
2020	180.4	_ 1,619.4	_ 294.3	19.8	190.9	912.7	8.4	R 59.6	R 1,485.6	R 3,285.4	1,619.4	305.2	979.3
2021 2022	200.2	1,511.1 1,578.3 1,619.4 R 1,591.9 1,659.7	324.1 318.1 294.3 R 315.3 326.9	20.5	277.0	1,003.4 1,020.4	70.7	71.8 76.0 61.3 45.4 59.9 55.5 60.5 R 66.9 R 63.0 R 57.2 R 59.6 R 61.0	1,717.5 1,576.6 1,775.4 1,610.4 1,549.9 1,588.9 1,613.8 1,695.1 R 1,738.4 R 1,758.5 R 1,844.0 R 1,805.4 R 1,485.6 R 1,746.3 1,810.6	113,538.3	1,081.7 1,180.5 1,236.0 1,348.4 1,245.3 1,241.2 1,378.1 1,414.4 1,421.3 1,511.1 1,578.3 1,619.4 R 1,591.9	R 320.2	970.5 991.8 1,003.7 1,054.3 1,077.7 1,094.9 1,112.9 979.3 1,077.6 1,096.6
2022	172.0	1,659.7	326.9	20.0	311.9	1,020.4	71.8	61.0	1,810.6	3,642.2	1,659.7	331.9	1,096.6

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Florida (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 0.9	32.7	NA	NA	NA	NA	32.7	0.0	NA	NA	R 33.6 R 37.8	R -32.2 R -36.2 R -68.0	0.0	R 783.4
1965 1970	0.0 0.0	R 1.0 R 1.0	36.8 48.0	NA NA	NA NA	NA NA	NA NA	36.8 48.0	0.0 0.0	NA NA	NA NA	Ragn	H -36.2 R -68.0	0.0 0.0	R 1,071.2 R 1,513.9
1971	0.0	H 0 9	47.3	NA	NA	NA	NA	47.3	0.0	NA	NA	R 48 2	R -80.9 R -86.4	0.0	R 1,603.1 R 1,730.3
1972 1973	0.7 51.0	R 0.8 R 0.8	51.9	NA	NA NA	NA NA	NA NA	51.9 53.8	0.0	NA NA	NA NA	H 52 7	H -86.4	0.0	H 1,730.3
1973	87.9	Rng	53.8 49.8	NA NA	NA NA	NA NA	NA NA	49.8	0.0 0.0	NA NA	NA NA	R 54.6 R 50.7	R -97.4 R -91.8	0.0 0.0	R 1,917.5 R 1,842.5
1975	92.2	H 0.8	47.6	NA	NA	NA	NA	47.6	0.0	NA	NA	H 48.4	R -90.9 R -88.3 R -71.9	0.0	R 1,853.4 R 1,982.0
1976 1977	95.5 189.1	R 0.9 R 0.8	53.8 57.4	NA NA	NA NA	NA NA	NA NA	53.8 57.4	0.0 0.0	NA NA	NA NA	R 54.7 R 58.2	H -88.3	0.0 0.0	H 1,982.0
1978	173.0	Rna	63.0	NA NA	NA NA	NA NA	NA NA	63.0	0.0	NA NA	NA	H 63.8	R -81.9	0.0	R 2,153.3 R 2,244.4
1979	167.4	HNR	66.9	NA	NA	NA	NA	66.9	0.0	NA	NA	R 67.7	R -83.9	0.0	R 2,339.9
1980 1981	182.6 159.4	R 0.7 R 0.6	87.8 81.2	NA 0.6	NA NA	NA NA	NA 0.0	87.8 81.8	0.0 0.0	NA NA	NA NA	R 88.6 R 82.4	R -81.9 R -83.9 R -50.1 R -59.5 R -9.4	0.0 0.0	R 2,339.9 R 2,426.7 R 2,400.5
1982	213.9	R n g	101.9	0.8	NA NA	NA	0.0	102.8	0.0	NA NA	NA NA	R 103.7	R -9.4	0.0	H 3 3U3 8
1983	161.4	R 0.8	89.4	2.9	NA	NA	0.0	92.3	0.0	NA	0.0	H 93.0	R 37.6 R 58.3 R 137.3 R 65.3 R 106.0 R 72.8 R 142.2	0.0	R 2,349.2 R 2,446.3 R 2,601.0
1984 1985	261.1 249.2	R 0.7 R 0.8	106.5 108.1	4.0 3.8	NA NA	NA NA	0.0 0.0	110.5 111.9	0.0 0.0	0.0 0.0	0.0 0.0	R 111.2 R 112.8	<sup>n</sup> 58.3 R 137 3	0.0 0.0	R 2,446.3
1986	233.1	R 0.7 R 0.7	114.1 105.3	2.5	NA	NA	0.0	116.7	0.0	0.0	0.0	R 117 /	_R 65.3	0.0	R 2,677.4 R 2,779.5
1987	196.0	H 0.7 H 0.7	105.3	1.2	NA	NA	0.0	106.5	0.0	0.0	0.0	H 107.3	H 106.0	0.0	H 2,779.5
1988 1989	277.8 221.4	RΛΩ	111.6 204.5	0.6 0.8	NA NA	NA NA	0.0 0.0	112.3 205.3	0.0 1.2	0.0 24.1	0.0 0.0	R 113.0 R 231.4	R 1/2.8	0.0 0.0	R 2,960.6 R 3,143.3
1990	230.5	R 0.6	170.3	0.6	NA	NA	0.0	170.9	1.3	25.6	0.0	R 198 4	R 303.6 R 253.1	0.0	R 3 275 2
1991	215.0	R 0.9 R 0.8	182.4	0.8	NA	NA	0.0	183.2	1.4	26.4	0.0	R 211.9 R 229.9	H 253.1	0.0	n 3 236 5
1992 1993	263.0 271.9	R 0.7	199.3 184.7	0.8 0.5	NA NA	NA NA	0.0 0.0	200.1 185.2	1.5 1.6	27.5 28.5	0.0 0.0	R 216.0	R 225.7 R 212 4	0.0 0.0	R 3,307.0 R 3,338.7
1994	278.9	Rna	181.8	0.4	NA	NA	0.0	182.2	1.5	29.4	0.0	R 216.0 R 214.0	R 216.4	0.0	L 3 128 3
1995 1996	302.0 267.5	R 0.8 R 0.7	186.3 206.0	0.2 0.1	NA NA	NA NA	0.0	186.5 206.1	1.6 1.8	29.9 30.3	0.0 0.0	R 218.8 R 238.9	H 221.0	0.0	R 3,604.9 R 3,677.1
1996	241.0	Rna	196.9	0.1	NA NA	NA NA	0.0 0.0	197.0	1.9	30.3	0.0	H 229 8	R 212.4 R 216.4 R 221.0 R 258.0 R 275.7 R 203.4	0.0 0.0	n 3 699 3
1998	326.4	R 0.7	171.7	0.1	NA	NA	0.0	171.8	2.1	29.6	0.0	R 204.3	R 203.4	0.0	H 3 850 2
1999 2000	329.4 336.8	R 0.5 R 0.3	171.6 164.0	0.1 0.2	NA NA	NA NA	0.0 0.0	171.6 164.2	2.2 2.2	29.0 27.9	0.0 0.0	R 203.2 R 194.5	R 237.9 R 293.9	0.0 0.0	R 3,907.6 R 4,067.9
2001	329.8	Ros	127.3	0.1	(s)	NA	(s)	127.4	2.4 2.7	26.8	0.0	R 157 1	R 327.1 R 315.2	0.0	R 4.051.5
2002	351.9	R 0.6	144.1	(s)	(s)	NA	(s) (s)	144.2	2.7	25.7	0.0	H 173.1	R 315.2	0.0	R 4,161.0
2003 2004	322.9 325.5	R 0.9 R 0.9	157.6 149.0	0.0	(s) (s)	NA NA	(s) (s)	157.6 149.0	3.5 3.8	24.7 24.0	0.0 0.0	R 186.7 R 177.7	R 279 4	0.0 0.0	R 4,051.5 R 4,161.0 R 4,181.0 R 4,334.5
2005	300.1	Rng	153.2	(s) 4.4	0.1	NA	(s)	157.7	4.4	22.9	0.0	H 185.9	R 312.0	0.0	R 4,406.6
2006	327.9	R 0.7 R 0.5	155.5	6.3	0.2	NA	(s) (s)	162.0	5.0	23.0 R 23.1	0.0	H 190 8	R 308.5	0.0	R 4,406.6 R 4,459.9 R 4,404.0 R 4,249.4
2007 2008	307.2 335.9	R 0.7	159.9 162.7	9.1 47.1	0.3 0.3	NA NA	(s) 0.0	169.3 210.0	5.9 6.9	23.1	0.0 0.0	R 198.9 R 241.2	H 294.8 R 291.7	0.0 0.0	H 4,404.0
2009	304.5	H n z	179.9	59.0	0.3	NA	0.0	239.2	8.4	23.6 R 23.1 R 24.0	0.0	H 271 5	R 282.5	0.0	R 4,098.3 R 4,304.6 R 4,148.5
2010	250.2 230.4	R 0.6 R 0.6	194.4 190.3	59.3 60.1	0.2 0.8	NA	0.0	253.9 251.2	9.5	H 24.0	0.0	R 288.0 R 286.5	H 233.2	0.0	H 4,304.6
2011 2012	230.4 187.3	Ros	184 1	60.1	0.7	0.0 0.0	0.0 0.0	248.5	9.8 10.1	R 24.9 R 25.9 R 26.6	0.0 0.0	R 284 9	R 195.5	0.0 0.0	
2013	187.3 277.2	R 0.9	192.1	63.7 65.3	3.5	0.0	(s)	260.9	10.1	R 26.6	0.0	R 298.5	R 192.8	0.0	R 4,107.8
2014	291.5	R 0.7 R 0.8	188.5	64.5	3.2	0.0	(s)	256.2	10.1	R 27.6 R 27.9	0.0	R 294.5 R 290.1	R 300.9 R 279.4 R 312.0 R 308.5 R 294.8 R 291.7 R 282.5 R 232.6 R 195.5 R 195.8 R 153.9 R 179.2	0.0	R 4,107.8 R 4,152.9 R 4,303.1
2015 2016	294.1 306.7	R 0.8	180.7 170.4	66.7 69.8	4.0 7.3	0.0 0.0	(s) (s)	251.3 247.5	10.1 10.1	R 28.3	0.0 0.0	R 286 5	R 166 4	0.0 0.0	R 4,303.1
2017	304.8	R 0.6 R 0.7	175.7	72.9	7.7	0.0	(s)	256.4	10.1	R 28.3 R 31.4	0.0	n 298.6	R 166.4 R 130.0	0.0	R 4,338.5 R 4,320.8
2018 2019	306.5 303.9	R 0.8 R 0.7	168.6 _ 155.8	76.4 76.0	4.3	0.0	(s)	249.3	10.1	R 37.2 R 43.1	0.0	R 297.3 R 289.0	H 118 8	0.0 0.0	R 4,405.6 R 4,330.8
2019	307.3	R 0.7	R 139.4	76.0 66.6	3.4 _ 3.5	0.0 0.0	(s) (s)	235.1 R 209.5	10.1 10.1	R 53.6	0.0 0.0	R 274.0	R 120.6 R 80.4	0.0	H 3 947 1
2021	R 307.8	R 0.9	141.1	74.2	R 2.9	0.0	0.0	R 218.1	10.1	R 64.5	0.0	R 293.5	H 111.4	0.0	H 4.251.1
2022	320.9	0.8	136.5	76.2	2.5	0.0	0.0	215.1	10.1	74.8	0.0	300.7	61.2	0.0	4,325.0

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

There is a discontinuity in this time series between 1900 and 1900 due to the expanded servings of consumption in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Florida

						Petroleum					Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total h,m
1960	0	50	8,430	4,936	9,482	43,148	16,779	13,050	95,825	0					16,807			
1970	0	138	15,046	7,828	23,840	76,254	11,859	12,593	147,421	0					50,219			
1980	758	151	26,231	10,718	35,911	109,279	26,761	9,161	218,061	0					90,766			
1990 2000	1,211 1,254	139 178	33,434 44,131	7,744 7,386	31,958 35,134	142,351 178,336	15,532 13,487	10,149 7,533	241,168 286,008	0					143,535 195,843			
2005	1,254	148	58.609	6,979	27.891	207.482	16,630	8.281	325,873	0					224,977			
2006	1,128	150	61,068	7,152	27,631	210,006	16,538	9,879	332,275	0					228,220			
2007	1,099	144	54,650	6,254	31,161	208,744	15,060	9,521	325,390	0					231,085			
2008	1,074	145	49,691	5,631	38,621	199,749	5,736	8,619	308,047	0					226,173			
2009	933	142	44,390	5,530	31,477	200,021	4,206	6,587	292,211	0					224,750			
2010 2011	846 489	177 174	49,037 46,898	5,519 5,201	42,533 43,176	196,374 192,098	15,168 14,425	6,921 6,535	315,552 308,333	0					231,210 225,090			
2012	502	190	45,742	4,562	42,961	191,725	11,067	6,056	302,112	0					220,674			
2013	575	191	48,318	4,365	44,364	196,014	9,354	6,113	308,529	Ö					221,920			
2014	618	178	49,205	4,611	46,402	198,398	9,084	6,591	314,291	0					226,078			
2015	576	189	52,461	4,532	48,938	208,479	8,311	7,046	329,765	0					235,599			
2016	500	201	53,513	5,055	50,441	213,200	8,597	R 7,264	R 338,071	0					235,722			
2017 2018	562 514	201 210	53,703 57,736	5,011 5,163	52,598 54,539	216,683 220,211	9,399 14,021	R 7,453 R 7,467	R 344,847 R 359,136	0					233,155 238,565			
2019	417	222	56,767	5,067	56,371	220,094	8.559	R 7,134	R 353,992	0					240,348			
2020	219	219	52,741	5,145	33.663	193,841	1,239	R 6,967	R 293.597	0					242,440			
2021	235	R 235	R 55,114	5,348	48,850	213,383	11,073	R 8,250	R 342,017	0					241,562			
2022	188	230	56,775	5,211	55,010	217,185	11,347	8,225	353,753	0					248,821			
									Trillion	Btu								
1960	0.0	51.3	49.1	18.9	51.5	226.7	105.5	74.8	526.4	0.0	32.7			NA	57.3	667.7	R 115.6	R 783.4
1970	0.0	144.1	87.6	29.9	133.2	400.6	74.6	73.7	799.5	0.0	48.0			NA	171.3	1,162.9	R 351.0	R 1,513.9
1980	17.4	161.0	152.8	39.5	201.6	574.0	168.2	55.9	1,192.0	0.0	87.8			NA OF 0	309.7	1,767.9	R 658.8 R 1,125.0	R 2,426.7 R 3,275.2
1990 2000	30.3 32.3	150.4 196.9	194.8 256.8	29.1 27.5	179.6 199.2	747.8 927.5	97.6 84.8	64.0 46.7	1,312.8 1,542.5	0.0	139.5 97.9			25.6 27.9	489.7 668.2	2,150.2 2,567.9	R 1,499.9	R 4,067.9
2005	27.6	153.4	341.0	26.1	158.1	1,077.2	104.6	52.8	1,759.8	0.0	102.7			22.9	767.6	2,838.6	R 1,568.0	R 4,406.6
2006	28.7	154.6	354.4	26.5	156.7	1,088.9	104.0	63.5	1,793.9	0.0	105.1			23.0	778.7	2,889.2	R 1,570.7	R 4,459.9
2007	28.0	149.4	316.1	23.3	176.7	1,073.4	94.7	61.2	1,745.3	0.0	108.2	(s)	5.9	R 23.1	788.5	2,848.8	R 1,555.2	R 4,404.0
2008	27.3	150.0	287.2	21.1	219.0	1,019.9	36.1	55.2	1,638.5	0.0	112.4			23.6	771.7	R 2,730.7	R 1,518.7	R 4,249.4
2009	24.1	146.0	256.4	20.8	178.5	1,018.1	26.4	42.2	1,542.5	0.0	126.4			R 23.1 R 23.7	766.8	R 2,637.4	R 1,463.0	R 4,100.4
2010 2011	21.7 12.6	181.0 176.5	283.2 270.6	21.2 20.0	241.2 244.8	995.0 972.6	95.4 90.7	43.9 41.4	1,679.9 1,640.0	0.0	141.2 140.0			R 24.4	788.9 768.0	R 2,845.8 R 2,771.5	R 1,460.2 R 1,380.3	R 4,306.0 R 4,151.8
2012	12.8	193.2	263.8	17.5	243.6	970.5	69.6	38.4	1,603.4	0.0	133.7			R 25.2	752.9	R 2,731.3	R 1,321.2	R 4,052.5
2013	15.0	194.8	278.5	16.8	251.5	991.8	58.8	38.2	1,635.7	0.0	140.8			R 25.9	757.2	R 2,779.4	R 1,333.0	R 4,112.5
2014	16.0	183.0	283.6	17.7	263.1	1,003.7	57.1	41.4	1,666.5	0.0	130.7			R 26.7	771.4	R 2,804.5	R 1,353.0	R 4,157.5
2015	15.0	193.9	302.3	17.4	277.5	1,054.3	52.2	44.3	1,748.0	0.0	121.1	(s)	10.1	R 27.1	803.9	R 2,919.0	R 1,389.1	R 4,308.1
2016	13.1	206.5	308.1	19.4	286.0	1,077.7	54.0	R 45.8	R 1,791.0	0.0	115.3			R 27.6	804.3	R 2,967.8	R 1,375.8	R 4,343.6
2017 2018	14.2	207.6 216.2	309.2 332.5	19.2	298.2	1,094.9	59.1	R 47.0 R 47.0	R 1,827.6 R 1,909.7	0.0	112.3			R 28.4 R 29.0	795.5	R 2,995.8 R 3,098.3	R 1,328.7 R 1,314.3	R 4,324.5 R 4,412.5
2018	12.9 10.3	216.2	332.5 326.9	19.8 19.5	309.2 319.6	1,112.9 1,111.9	88.2 53.8	R 44.8	1,909.7 R 1.876.5	0.0	106.4 106.0			R 29.8	814.0 820.1	R 3,079.7	R 1,258.4	R 4,338.0
2019	5.4	225.1	303.6	19.5	190.9	979.3	7.8	R 44.0	R 1,545.3	0.0	94.3			R 31.4	827.2	R 2,738.8	R 1,215.7	R 3,954.5
2021	5.9	R 241.7	R 317.7	20.5	277.0	1,077.6	69.6	R 52.0	R 1,814.4	0.0	R 96.1			R 33.7	824.2	R 3,026.1	R 1,228.6	R 4,254.7
2022	4.5	235.3	327.3	20.0	311.9	1,096.6	71.3	51.8	1,878.9	0.0	99.8	0.0		36.1	849.0	3,113.6	1,215.4	4,328.9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Florida

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	0	6	541	1.749	3.150	5,440				7.258			
1965	Ö	8	976	1,749 2,072	3,150 3,001	6,049				7,258 12,283			
1970	0	15	1,010	2,882	2,414	6.306				24,610			
1975	0	15 15 14	1,097	2,609	724	4,429				34,756			
1980	2	15	1,215	2,243 3,033	774	4,232 4,530				44,746 54,118			
1985	24	14	634	3,033	864	4,530				54,118			
1990	1	13 15	277	2,524	154 211	2,955 2,434				71,115			
1995 2000	(s)	15	228 119	1,995 2,219	211	2,434				85,770 99,006			
2005	(0)	10	119	2,219	99	2,436				115,791			
2005	(s)	16 16	99 84	2,120	82 54	2,258	==			117,053			
2007	(s)	15	50	1,909	20	1,980				117,816			
2008	0	16	28	1,905	14	1.947				113,937			
2009	ŏ	15	38	2 399	18	2,455 2,426				115,474			
2009 2010	Ŏ	15 19	38 45	2,350	31	2,426				115,474 122,245			
2011	0	16	27	1,850	11	1.888				116.341			
2012	0	14	14	1,355	4	1,372				112,127			
2013	0	15	11	1,295	3	1,309				113.294			
2014	Ō	17	18 14	1,409	8	1,435				116,535 122,759			
2015	0	15	14	1,352	3	1,369				122,759			
2016	0	15	12	1,447	6	1,466				123,321			
2017	0	15	9	1,628	2	1,639 1,777				121,463 125,528			
2018 2019	0	17 17	10 12	1,628 1,763 1,653	3	1,777				125,528			
2020	0	17	7	1,695	3	1,705				133,299			
2020	0	19	15	1,665	3	1,683				130,412			
2022	ő	19	15	1,551	3	1,568				134,246			
							Trillion Btu						
1960	0.0	6.6	3.2	6.7	17.9	27.7	8.7	NA	NA	24.8	67.8	R 49.9	R 117.7
1965	0.0	8.4	5.7	8.0	17.0	30.7	5.8	NA	NA	41.9	86.9	R 82.4	H 169 3
1970	0.0	15.3	5.7 5.9	11.1	13.7	30.6	5.8 7.5	NA	NA	84.0	137.4	R 172.0	R 309.4
1975	0.0	16.4	6.4	10.0	4.1	20.5	9.6	NA	NA	118.6	165.1	R 242.1	R 407.2
1980	0.1	16.2	7.1	8.6	4.4	20.1	45.8	NA	NA	152.7 184.7	234.8	R 324.8 R 375.2	R 559.6 R 654.6 R 878.3 R 1,007.2 R 1,158.5 R 1,258.5 R 1,248.1 R 1,248.1
1985	0.6	15.0	3.7	11.6	4.9	20.2	58.8	NA	NA	184.7	279.3	H 375.2	H 654.6
1990	(s)	14.1	1.6	9.7	0.9	12.2 10.2	25.3 9.7	1.1 1.4	25.6	242.6 292.6	321.0	R 557.4 R 647.7	R 4 007 0
1995 2000	(S)	15.6 16.8	1.3 0.7	7.7 8.5	1.2 0.6	9.8	6.3		25.6 29.9 27.9	292.6 337.8	359.4 400.2	R 758.3	H 1,007.2
2000	(s)	16.7	0.7	8.5	0.6	9.6	2.2	1.6 3.3	22.9	395.1	449.7	R 807.0	1,130.3 B 1 256 7
2005	(5)	16.1	0.6	8.1	0.3	9.5	2.2	3.3	22.9	393.1	453.2	R 805 6	R 1,250.7
2006 2007	(s)	15.6	0.5 0.3	7.3	0.3 0.1	8.9 7.7	2.0 2.2	3.8 4.6	23.0 R 23.1	399.4 402.0	455.2	R 805.6 R 792.9	R 1 248 1
2008	0.0	16.1	0.2	7.3	0.1	7.6	2.4	5.5	23.6	388.8	443.9	R 765.1 R 751.7 R 772.0	R 1,208.9
2009	0.0	15.7	0.2	9.2	0.1	9.5	14.6	6.8	23.1	394.0	463.7	R 751.7	R 1,215.3 R 1,264.8
2010	0.0	19.2	0.3	9.0	0.2	9.5 9.5	15.6	7.7	23.7	417.1	463.7 R 492.7	R 772.0	R 1,264.8
2011	0.0	16.6 14.6	0.2	7.1	0.1	7.3	15.2 12.7	7.4	R 24.4	397.0	H 467 9	R 713.4	R 1,181.4
2012	0.0	14.6	0.1	5.2	(s)	7.3 5.3	12.7	8.0	R 24.4 R 25.1 R 25.8	397.0 382.6	R 448.3	R 713.4 R 671.3	R 1,181.4 R 1,119.6 R 1,138.0
2013	0.0	15.6	0.1	5.0	(s)	5.1	16.5	8.0	H 25.8	386.6	R 457.5	H 680 5	H 1,138.0
2014 2015	0.0 0.0	17.1	0.1	5.4	(s)	5.6	16.7	8.0 8.0	H 26.5	397.6	R 471.6	H 697.4	R 1,169.0 R 1,198.8
2015	0.0	15.8	0.1	5.2	(s)	5.3	0.3	8.0	R 26.5 R 26.9 R 27.3 R 28.1	418.9	R 475.0	R 697.4 R 723.8 R 719.8 R 692.2	n 1,198.8
2016	0.0	15.8	0.1	5.6	(s)	5.7	0.3	8.0	P 27.3	420.8	R 477.7	719.8 B 200.0	R 1,197.5 R 1,164.6
2017	0.0	15.4	0.1	6.3	(S)	6.3	0.2	8.0	R 28.1 R 28.5	414.4	R 472.4 R 489.5	11 692.2 B 604.5	R 1,164.6 R 1,181.1
2018 2019	0.0 0.0	17.6 17.0	0.1 0.1	6.8 6.3	(8)	6.8 6.4	0.3 0.3	8.0 8.0	R 29.3	428.3 433.9	R 495.0	R 691.5 R 665.9	R 1,181.1
2019	0.0	17.U 17.Ω	(s)	0.3 6.5	(8)	6.6	0.3	8.0	R 20.8	433.9 454.8	R 519 1	R 669 4	R 1,186.5
2020 2021	0.0 0.0	17.8 R 20.0	0.1	6.5 6.4	(s)	6.5	0.2 0.2	8.0	R 30.8 R 32.9	445.0	R 518.1 R 512.5	R 668.4 R 663.3	R 1,175.8
	0.0	19.3	0.1	6.0	(s)	6.1	0.2	8.0	35.2	458.0	526.9	655.7	1,182.6

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Florida

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	0	7	1,097	2,319	175	685	2,126	6,402	NA			NA	5,586			
1965 1970	0	13 27	1,981 2,049	2,746 3,821	166 134	712 1,382	1,608 1,467	7,214 8,853	NA NA			NA NA	9,369 16,244			
1975	Ö	32	2,226	3,458	40	1,038	1,555	8,317	NA			NA	22,904			
1980 1985	8 86	30 31	1,926 4,083	2,973 4,020	28 1,047	1,340 1,368	1,476 2,170	7,743 12,688	NA NA			NA NA	27,422 41,290			
1990	4	36	3,853	3,346	125	1,412	2,365	11.101	0			(s)	55,769			
1995	1 8	40	2,944	2,645	95 28	100	138	5,922	0			(s)	65,201			
2000 2005	(s)	48 58	2,641 3,542	2,942 2,658	52	303 383	15 351	5,929 6,985	0			(s) (s)	77,900 89,410			
2006	(s)	51	3,732	2,518	52 17	446	351 82	6,795	0			(s)	91,300			
2007 2008	(s) 0	51 51	2,306 2,874	2,594 2,366	12 5	676 627	41 0	5,629 5,873	0			2	93,931 93,205			
2009	0	50	3.099	2,077	7	666	8	5,858	0			. 6	92,275			
2010 2011	0	54 54 55	2,802 2,516	2,088 1,800	16 12	1,828 947	35 12	6,769 5,287	0			11 16	91,614 91,778			
2012	Õ	55	2,522	2,175	3	377	6	5,082	ŏ			34	92,038			
2013 2014	0	60 63	2,741 2,673	2,023 2,101	2	721 591	8 (s)	5,495 5,371	0			46 65	92,145 92,926			
2015	Õ	60	2,687	1,990	4	5,361	(s)	10,042	Õ			75	95,847			
2016 2017	0	63 61	2,490 2,685	2,319 1,978	3	6,473 5,494	0	11,285 10,159	0			87 96	95,547 95,004			
2018	ő	64	2.593	2.088	1	5,586	ő	10,268	ő			116	96,265			
2019 2020	0	63 57	2,352 2,145	2,133 2,058	1	5,640 5,673	0	10,127 9,876	0			145 163	96,567 92,494			
2021	0	63	R 1,880	2,161	2	5,722	Ö	R 9,766	0		==	212	93,965		==	
2022	0	63	1,845	2,088	2	6,159	0	10,094	0			241	96,864			
								Tri	lion Btu							
1960 1965	0.0 0.0	7.2 13.2	6.4 11.5	8.9 10.5	1.0 0.9	3.6 3.7	13.4 10.1	33.3 36.9	NA NA	0.2 0.1	NA NA	NA NA	19.1 32.0	59.7 82.2	R 38.4 R 62.9	R 98.1 R 145.0
1970	0.0	28.0	11.9	14.7	0.8	7.3	9.2	43.9	NA NA	0.1	NA NA	NA NA	55.4	127.4	H 112 E	H 241 0
1975	0.0	34.2	13.0	13.3	0.2	5.5	9.8	41.7	NA	0.2	NA	NA	78.1	154.2	R 159.6 R 199.0	R 313.8
1980 1985	0.2 2.1	32.3 34.0	11.2 23.8	11.4 15.4	0.2 5.9	7.0 7.2	9.3 13.6	39.1 66.0	NA NA	1.1 1.4	NA NA	NA NA	93.6 140.9	166.3 244.5	R 286 3	R 365.3 R 530.8
1990	0.1	39.3	22.4	12.9	0.7	7.4	14.9	58.3	0.0	3.2	0.2	(s)	190.3	291.4	R 437 1	R 728 5
1995 2000	(s) 0.2	43.2 53.1	17.1 15.4	10.2 11.3	0.5 0.2	0.5 1.6	0.9 0.1	29.2 28.5	0.0 0.0	1.7 1.5	0.3 0.5	(s) (s)	222.5 265.8	296.9 349.6	R 492.4 R 596.6	R 789.3 R 946.2
2005	(s)	59.9	20.6	10.2	0.3	2.0	2.2	35.3	0.0	0.8	1.2	(s)	305.1	402.3	R 596.6 R 623.2	R 1.025.4
2006 2007	(s)	52.2 52.9	21.7 13.3	9.7 10.0	0.1 0.1	2.3 3.5	0.5 0.3	34.3 27.1	0.0 0.0	0.8 1.0	1.2 1.3	(s) (s)	311.5 320.5	400.1 402.8	R 628.3 R 632.2	R 1,028.4 R 1,035.0
2007	(s) 0.0	52.5	16.6	9.1		3.5	0.3	28.9	0.0	0.9	1.3	(S)	320.5	401.8	H 625 8	H 1 027 7
2009	0.0	51.9	17.9	8.0	(s) (s)	3.4	0.1	29.4	0.0	2.7	1.6	R (s)	314.8	R 400 4	R 600.7	<sup>rt</sup> 1,001.1
2010 2011	0.0 0.0	55.4 54.3	16.2 14.5	8.0 6.9	0.1 0.1	9.3 4.8	0.2 0.1	33.8 26.4	0.0 0.0	2.6 2.5	1.8 2.4	R (s) R 0.1	312.6 313.1	R 406.2 R 398.7	R 578.6 R 562.8	R 984.8 R 961.6
2012	0.0	54.3 55.7	14.5	8.4	(s)	1.9	(s)	24.9	0.0	2.2	2.1	R 0 1	314.0	н 399.0	R 562.8 R 551.1	R 950 0
2013	0.0 0.0	61.0 64.5	15.8 15.4	7.8	(s)	3.6 3.0	0.1	27.3 26.5	0.0 0.0	2.4 2.6	2.1 2.1	R 0.2 R 0.2	314.4 317.1	R 407.4 R 412.9	H 553 5	R 960.9 R 969.0
2014 2015	0.0	64.5 61.7	15.4 15.5	8.1 7.6	(s) (s)	3.0 27.1	(s) (s)	26.5 50.3	0.0	2.6 0.6	2.1	R n 3	317.1 327.0	R 441.9	R 556.1 P 565.1	H 1,007.0
2016	0.0	64.2	14.3	8.9	(s)	32.7	0.0	56.0	0.0	0.6	2.1	Ros	326.0	R 449.2	R 557.7 R 541.4	R 1 006 9
2017 2018	0.0 0.0	63.3 65.6	15.5 14.9	7.6 8.0	(s) (s)	27.8 28.2	0.0 0.0	50.8 51.2	0.0 0.0	0.5 0.5	2.1 2.1	R 0.3 R 0.4	324.2 328.5	R 441.2 R 448.2	H 530 3	R 982.6 R 978.6
2019	0.0	64.9	13.5	8.2	(s)	28.5	0.0	50.2	0.0	0.4	2.1	R 0.5	329.5	H 1176	REALE	H 953 2
2020 2021	0.0 0.0	58.9 R 64.9	12.3 10.8	7.9 8.3	(s)	28.7 28.9	0.0 0.0	48.9 48.0	0.0 0.0	0.2 2.9	2.1 2.1	R 0.6 R 0.7	315.6 320.6	R 426.2 R 439.3	R 463.8 R 477.9	R 890.0 R 917.2
2022	0.0	64.8	10.6	8.0	(s)	31.1	0.0	49.8	0.0	9.3	2.1	0.8	330.5	457.3	473.1	930.4
					.,											

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Hydrocarbon gas liquids, assumed to be propane only.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Florida

					Petro	leum			Ultralina	Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	0	35 74	2,934 4,451	785	182	10,883	4,535	19,320	0				NA	3,963			
1965 1970	0	74 92	4,451 4,494	711 928	180 202	9,636 8,148	5,899 6,239	20,877 20,011	0				NA NA				
1975	21	90	4,494	1,242	92	7,369	5,203	18,631	0				NA NA				
1980	748	102	7,077	5,341	86	13,673	6,214	32,391	Ö				NA	18,598			
1985 1990	911 1,207	76 87	5,181 4,148	2,489 1,662	1,022 1,069	6,283 3,220	8,881 8,238	23,855 18,337	0				NA (s)	15,742 16,605			
1995	1,325	129	5.792	3.008	1,148	4.980	7,847	22.775	0	==			(s)	16,473	==	==	
2000	1,245	107	6,230	2,087	1,139	3,495	5,954	18,906	Ö				(s)	18,884			
2005 2006	1,068	64 71	8,939 8,283	1,770	2,795	2,851 2,426	6,996 8,700	23,352 24,475	0				(s)	19,676			
2006	1,128 1,099	68	6,362	2,190 1,554	2,875 3,507	1,759	8,700 8,405	21,588	0				(s) (s)	19,768 19,241			
2008	1,074	69	6,481	1,030	3,465	1,488	7.562	20,026	ŏ				(s)	18,945			
2009	933	66	5,783	822	3,300	1,096	5,676	16,677	0				(s)	16,918			
2010 2011	846 489	81 90	8,923 6,311	1,018 1,489	2,049 1,929	894 915	5,158 4,792	18,042 15,437	0				(s) (s)	17,265 16,886			
2012	502	104	5,986	983	1,995	485	4,446	13,895	ő				(s)	16,426			
2013	575	103	6,568	977	2,036	223	4,416	14,219	0				`1	16,390			
2014 2015	618 576	95 96	6,608 6,720	1,022 1,075	2,117 4,365	229 171	4,838 5,140	14,814 17,471	0				1	16,522			
2015	500	104	6,720	1,075	4,365	337	R 5 449	R 17,471	0				6	16,897 16,759			
2017	562	104	7,100	1,171	4,472	192	R 5 706	H 18 641	ő				11	16,602			
2018	514	108	6,558	1,077	4,634	215	R 5,664 R 5.351	H 18.148	0				13	16,689			
2019 2020	417 219	120 123	6,014 5,067	1,053 1,079	4,653 4,713	264 207	R 5,466	R 17,335 R 16,532	0				13 19				
2021	235	132	6,529	1,153	4,562	230	R 6,285	R 18,759	ő				19	17,113			
2022	188	124	6,599	1,354	4,754	236	6,211	19,154	0				20	17,636			
									Trillion Bt	u							
1960	0.0	36.4	17.1	3.0	1.0	68.4	29.0	118.5	0.0		NA	NA	NA		192.2	R 27.3	R 219.5
1965	0.0	77.2	25.9	2.7		60.6	36.7	126.9	0.0		NA	NA	NA		256.9	R 43.3 R 65.5	<sup>R</sup> 300.2
1970 1975	0.0 0.5	96.3 96.6	26.2 27.5	3.4 4.4	1.1 0.5	51.2 46.3	39.3 33.1	121.2 111.8	0.0	40.4 37.8	NA NA	NA NA	NA NA		289.8 292.1	R 92.6	R 355.2 R 384.7
1980	17.1	108.6	41.2	18.8	0.5	86.0	39.7	186.2	0.0	40.9	NA	NA	NA	63.5	416.3	R 135.0	R 551 3
1985	22.6	84.2	30.2	8.5		39.5	56.8	140.4	0.0	47.9	0.0	NA	ŅĄ		348.9	R 109.1	R 458.0
1990 1995	30.2 33.3	93.9 137.9	24.2 33.7	5.7 10.4	5.6 6.0	20.2 31.3	53.4 51.0	109.1 132.4	0.0 0.0	111.0 112.9	0.0 0.0	0.0 0.0	(s) (s)	56.7 56.2	400.8 472.7	R 130.1 R 124.4	R 531.0 R 597.1
2000	32.1	118.7	36.3	7.1	5.9	22.0	37.8	109.1	0.0	90.2	0.0	0.0	(s)	64.4	414.5	R 144 6	R 559.1
2005	27.6	66.8	52.0	6.1	14.5	17.9	45.5	136.0	0.0	99.7	(s)	0.0	(s)	67.1	397.3	H 137 1	R 534.4
2006 2007	28.7 27.9	73.7 70.2	48.1 36.8	7.5 5.3	14.9 18.0	15.3 11.1	56.8 54.8	142.5 126.0	0.0	102.3 105.1	(s) (s)	0.0 0.0	(s) (s)	67.4 65.7	414.6 394.9	R 136.0 R 129.5	R 550.7 R 524.4
2008	27.3	71.4	37.5	3.5	17.7	9.4	49.2	117.2	0.0	109.0	0.0	0.0	(s)	64.6	389.6	R 127 2	H 516.8
2009	24.1	67.6	33.4	2.7	16.8	6.9	49.2 37.0	96.8	0.0	109.2	0.0	0.0	(s)	57.7	355.4	H 110 1	R 465.5
2010 2011	21.7 12.6	83.0 91.7	51.5 36.4	3.9 5.7	10.4 9.8	5.6 5.8	33.7 31.3	105.1 88.9	0.0	122.9 122.4	0.0 0.0	0.0	(s)	58.9 57.6	391.6 373.2	R 109.0 R_103.5	R 500.7 R 476.8
2011	12.8	106.2	36.4 34.5	3.8		3.1	29.1	80.5	0.0	118.8	0.0	0.0	(s) (s)	56.0	373.2 374.3	Rogg	R 472.7
2013	15.0	105.3	37.9	3.8	10.3	1.4	28.4	81.7	0.0	121.8	(s)	0.0	(s)	55.9	379.8	R 98.5	H 478.2
2014	16.0	97.5	38.1	3.9		1.4	31.2	85.3	0.0	111.4	(s)	0.0	(s)	56.4	366.7	H 98 9	H 465.6
2015 2016	15.0 13.1	98.8 106.7	38.7 37.7	4.1 4.4	22.1 22.4	1.1 2.1	33.2 35.2	99.2 101.9	0.0 0.0	120.2 114.4	(s)	0.0 0.0	R (s)	57.7 57.2	390.9 393.3	R 99.6 R 97.8	R 490.5 R 491.1
2017	14.2	107.0	40.9	4.5		1.2	R 36.9	R 106 1	0.0	111.6	(s)	0.0	R (s) R (s)	56.6	R 395.6	R 94 6	R 490 2
2018	12.9	111.4	37.8	4.1	23.4	1.4	R 36 6	H 103.3	0.0	105.6	(s)	0.0	R (s)	56.9	H 390.2	R 91 9	R 482.1
2019	10.3	122.7	34.6	4.0		1.7	R 34.6 R 35.4	R 98.4 R 93.8	0.0	105.3	(s)	0.0	R (s) R 0.1	56.3	R 393.1 R 376.2	R 86.5 R 83.1	H 479.6
2020 2021	5.4 5.9	126.4 R 135.7	29.2 37.6	4.1 4.4	23.8 23.0	1.3 1.4	R 40.8	R 107.4	0.0 0.0	93.9 93.0	(s) 0.0	0.0 0.0	R 0.1	56.5 58.4	R 400.5	R 87.0	R 459.3 R 487.5
2022	4.5	127.0	38.0	5.2	24.0	1.5	40.3	109.0	0.0		0.0	0.0	0.1	60.2	391.0	86.1	477.1

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Florida

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	0	1	4,517	3,858	82	9,482	674	42,281	3,770	64,663	0			
1965	0	3	4,273	4,482	134 197	17,525	723	52,244	4,751	84,132	0			
1970 1975	0 (s)	4	3,138	7,493 10,160	169	23,840 24,199	669 622	74,670	2,244 2,211	112,252	0			
1980	0	4	1,921 1,339	10,160 16,014	161	35,911	622 805	99,462 107,853	11,613	138,744 173,695	ő			
1985	0	4	841	20,762	390	23,101	733	122,956	6,892	175 675	18			
990	0	3 8	808 599	25,155 28,915	213 148	31,958 28,045	824 786	139,870	9,946 8,435	208,776 223,338	46 49			
995	0	8	612	26,915	138	35,134	766 840	156,410 176,893	9,435	223,336 258 735	49 54			
005	ő	10	443	46,030	342	27,891	709	204,304	13,428	258,735 293,145	99			_
006	0	12	418	48,968	324	27,631	690	206,686	14,030	298,747	99			_
2007	0	10	370	45,932	197	31,161	713	204,560	13,260	296,193	96			-
008 009	0	10 10	376 291	40,308 35,470	330 232	38,621 31,477	662 595	195,656 196,054	4,248 3,101	280,200 267,221	86 84			_
010	0	23	404	37.267	62	42.533	1 312	196,054	14,239	288 315	86			
011	ŏ	14	452	38,044	62	43,176	1,312 1,267	189,221	13,498	288,315 285,721	86			
012	0	16	447	37,220	49	42.961	1.156	189,353	10,576	281.762	84			
013	0	13	456 432	38,998	71 79	44,364	1,237 1,307	193,257	9,123 8,854	287,506 292,672	91			-
014 015	0	4 17	432 467	39,907 43,040	79 115	46,402 48,938	1,307	195,690 198,753	8,854 8,140	292,672 300,884	95 95			_
016	0	19	469	44,455	136	50,441	R 1 338	202,297	8 260	R 307 395	95			_
017	ŏ	19 21	469 496	43,909	136 234	52,598	R 1,338 R 1,246	206,716	8,260 9,208	R 307,395 R 314,407	95 86			_
018	0	21 22	531	48,575	234	54,539	H 1 267	209,991	13.807	H 328.943	83			_
019	0	22	568	48,389	227	56,371	R 1,210 R 1,023	209,801	8,295	R 324,862	85 75			-
020 021	0	21 20	475 498	45,521 R 46,690	314 368	33,663 48,850	R 1,148	183,456 203,099	1,032 10,843	R 265,483 R 311,810	75 72			_
2022	ŏ	24	516	48,317	218	55,010	1,223	206,272	11,111	322,937	75			
							Tri	llion Btu						
1960	0.0	1.0	22.8	22.5	0.3	51.5	4.1	222.1	23.7	347.0	0.0	348.0	0.0	348.0
965 970	0.0 0.0	2.6 4.5	21.6	26.1 43.6	0.5 0.8	97.2 133.2	4.4 4.1	274.4 392.2	29.9 14.1	454.1 603.8	0.0 0.0	456.7 608.4	0.0	456.7 608.4
970 975	(s)	4.5 2.5	15.8 9.7	59.2	0.8	135.5	3.8	522.5	13.9	745.2	0.0	747.7	0.0 0.0	747.
980	0.0	3.9	6.8	93.3	0.6	201.6	4.9	566.6	73.0	946 7	0.0	950.6	0.0	950.
985	0.0	3.9 4.3	4.2	120.9	1.5	129.2	4.4	645.9	43.3	949.5	0.1	957.6	0.1	950. 957.
990	0.0	3.0	4.1	146.5	0.8	179.6	5.0	734.7	62.5	1,133.2	0.2	1,137.1	0.4	1,137
995 000	0.0 0.0	8.2 8.3	3.0 3.1	168.3 204.5	0.6 0.5	159.0 199.2	4.8 5.1	814.0 920.0	53.0 62.7	1,202.6 1,395.2	0.2 0.2	1,211.0 1,403.7	0.4 0.4	1,211 1,404
005	0.0	9.9	2.2	267.8	1.3	158.1	4.3	1,060.7	84.4	1,579.0	0.2	1,589.3	0.4	1,590
006	0.0	12.6	2.1	284.2	1.2	156.7	4.3 4.2	1,071.7	88.2	1,608.2	0.3	1,621.4	0.7	1,622
007	0.0	10.7	1.9	265.7	0.8	176.7	4.3	1,051.8	83.4	1,584.5	0.3	1,595.9	R 0.6	1,596
800	0.0	10.0	1.9	233.0	1.3	219.0	4.0	999.0	26.7	1,484.9	0.3	1,495.4 1.417.9	0.6 R 0.5	1,496
009 010	0.0 0.0	10.8 23.4	1.5 2.0	204.9 215.2	0.9 0.2	178.5 241.2	3.6 8.0	997.9 975.4	19.5 89.5	1,406.8 1,531.5	0.3 0.3	1,417.9	0.5	1,418 1,555
011	0.0	13.8	2.3	219.5	0.2	244.8	7.7	958.0	84.9	1,517.4	0.3	1,531.5	0.5	1,532
012	0.0	16.8 12.9	2.3 2.3	214.6	0.2	243.6	7.0 7.5	958.5 977.9	66.5	1,492.7 1,521.6	0.3	1,509.7	0.5 R 0.5	1,510
013	0.0		2.3	224.7	0.3	251.5	7.5	977.9	57.4	1,521.6	0.3	1,534.8		1,535
014 015	0.0 0.0	3.9 17.6	2.2 2.4	230.0 248.0	0.3 0.4	263.1 277.5	7.9 8.7	990.0 1,005.1	55.7 51.2	1,549.2 1,593.2	0.3 0.3	1,553.4 1,611.1	0.6 0.6	1,553
016	0.0	17.6	2.4	248.0 255.9	0.4	286.0	0./ R g 1	1,005.1	51.2 51.9	R 1 627 5	0.3	R 1 647 6	0.6	1,611. R 1,648.
017	0.0	21.8	2.5	252.8	0.9	298.2	R 8.1 R 7.6	1,044.5	57.9	H 1.664.4	0.3	<sup>n</sup> 1.686.5	0.5	H 1.687
018	0.0	21.7	2.7	279.7	0.9	309.2	R 7.7	1,061.3	86.8	H 1.748.3	0.3	H 1,770.3	0.5	H 1,770.
019	0.0	22.2	2.9	278.7	0.9	319.6	R <sub>7.3</sub>	1,059.9	52.2	H 1,721.4	0.3	1,744.0	R 0.4	1,744.
2020	0.0	22.0 B 21.1	2.4	262.0 R 269.1	1.2	190.9	6.2 R 7.0	926.8	6.5	1,396.0 B 1,652.5	0.3	1,418.3 B 1,672.0	0.4	1,418. R 1,674.
2021 2022	0.0 0.0	R 21.1 24.1	2.5 2.6	278.5	1.4 0.8	277.0 311.9	7.0	1,025.6 1,041.5	68.2 69.9	R 1,652.5 1,714.1	0.2 0.3	R 1,673.9 1,738.4	0.4 0.4	1,674.
V-L	0.0		2.0	210.0	0.0	011.0	77	1,0-11.0	00.0	1,7 1-7.1	3.0	1,700.4	0.1	1,700

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Florida

				Petro	oleum		Nuelee		Biomass	]			Electricity	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	1,104	89 87	191	0	13,419	13,610	0	278		0	NA	NA	0	
1965 1970	2,323	87	388 593	0	27,349 41,783	27,737	0	298 292		0	NA NA	NA NA	0	
1970	5,131 5,758	198 141	593	0	68,180	42,376 73,385	8,370	292		0	NA NA	NA NA	0	
1980	5,758 8,785	166	5,205 3,200	0	69,994	73,194	16,737	215		0	NA	NA NA	0	
1985	18.283	166	1,246	0	22,432	23,678	23.461	244		0	0	0	0	
1990	24,301	189	1,877	0	38,752	40,628	21,780	175		0	0	0	0	
1995 2000	26,897	369 364	1,854 3,561	0	33,692	35,546 58,533	28,741 32,291	231		0	0	0	0	
2000 2005	29,846 26,603	630	3,561 2,373	3,205 14,416	51,766 44,403	58,533 61,192	32,291 28,759	87 266		0	0	0	0	
2005	27,755	742	1,167	12,459	24,378	38,004	31,426	203		0	0	0	0	
2007	28.826	773	1,223	8,034	23.726	32,983	29,289	154		ŏ	ŏ	ŏ	ŏ	
2008	28,077	797	752	5,933	13,952	20,636	32,133	206		0	0	0	0	
2009	23,467	914	1,043	5,173	9,518	15,734	29,118	208		0	9	0	0	
2010	25,698	982	2,148	5,615	8,256	16,019	23,936	177		0	80	0	0	
2011 2012	22,805 19,932	1,044 1,139	801 407	3,475 1,230	1,600 818	5,877 2,456	22,015 17,870	182 151		0	126 193	0	0	
2012	20,905	1,133	447	3,784	401	4,632	26 526	254		0	208	0	0	
2014	23,012	1,034 1,037	491	2,471	428	3,390	26,526 27,868	254 211		ŏ	240	ŏ	ŏ	
2015	19 157	1,157	506	2.831	578	3.915	28,122	244		0	222	0	0	
2016	17,701 16,852	1,181	599 553	3,693 1,734	802	5,095 2,638	29,320	175		0	221	0	0	
2017	16,852	1,187	553	1,734	351	2,638	29,146	218		0	871	0	0	
2018 2019	13,365 9,533	1,267	504 320	2,793 2,165	501 190	3,798 2,676	29,312 29,108	233 210		0	2,404 3.889	0	0	
2019	9,533 7,496	1,321 1,359	320 279	2,100	96	3,096	29,108	232		0	5,669 6,498	0	0	
2021	8,304	1,317	430	1,575	169	2,173	R 29,515	252		0	9,038	0	0	
2022	7,153	1,389	790	1,618	72	2,480	30,768	231		Ö	11,332	Ŏ	ő	
							Trillion Btu							
1960	27.2	91.6	1.1	0.0	84.4	85.5	0.0	R 0.9 R 1.0	0.0	0.0	NA	NA	0.0	R 205.2
1965 1970	55.2	90.2	2.3	0.0	171.9	174.2	0.0	n 1.0	0.0	0.0	NA NA	NA NA	0.0	R 320.6 R 590.4
1970	116.7 133.0	206.5 142.4	3.5 30.3	0.0 0.0	262.7 428.6	266.1 459.0	0.0 92.2	R 1.0 R 0.8	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	R 827.3
1980	208.1	168.5	18.6	0.0	440.1	458.7	182.6	R 0.7	0.0	0.0	NA NA	NA	0.0	H 1 018 6
1985	447.0	167.5	18.6 7.3	0.0	141.0	148.3	249.2	R 0.7 R 0.8	0.0	0.0	0.0	0.0	0.0	H 1 012 0
1990	603.1	191.6	10.9	0.0	243.6	254.6	230.5	R06	30.8	0.0	0.0	0.0	0.0	H 1 311 2
1995	653.6	374.5	10.8	0.0	211.8	222.6	302.0	R 0.8	61.9	0.0	0.0	0.0	0.0	'' 1.615.4
2000 2005	728.1 644.7	377.5 652.1	20.7 13.8	19.3 82.4	325.5 279.2	365.5 375.4	336.8 300.1	R 0.3 R 0.9	66.1 50.4	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 1,874.3 R 2,023.7
2005	667.5	762.9	6.8	62.4 71.3	153.3	231.3	327.9	R 0.7	50.4 50.4	0.0	0.0	0.0	0.0	R 2,040.8
2007	692.9	794.4	7.1	45.9	149.2	202.2	307.2	R 0.5	51.7	0.0	0.0	0.0	0.0	R 2.048.9
2008	692.9 665.9	794.4 820.0	4.3	45.9 33.9	87.7	126.0	335.9	R 0.5 R 0.7	50.3	0.0	0.0	0.0	0.0	R 2,048.9 R 1,998.7
2009	557.5	935.7	6.0	29.6	59.8	95.4	304.5	R 0.7	53.5 53.2	0.0	R (s) R 0.3	0.0	0.0	H 1 947 4
2010	615.7	999.5	12.4	32.1	51.9	96.4	250.2	R 0.6	53.2	0.0	H 0.3	0.0	0.0	H 2 015 9
2011	540.1	1,059.4	4.6	19.9	10.1	34.6	230.4	R 0.6	50.3	0.0	R 0.4 R 0.7	0.0	0.0	R 1,915.8
2012 2013	470.2 490.2	1,155.1 1,050.5	2.3 2.6	7.0 21.6	5.1 2.5	14.5 26.7	187.3 277.2	R 0.5 R 0.9	50.4 51.3	0.0 0.0	" U. / R n 7	0.0 0.0	0.0 0.0	R 1,878.7 R 1,897.4
2013	541.9	1,058.2	2.8	14.1	2.7	19.7	291.5	H 0 7	57.7	0.0	R 0.7 R 0.8	0.0	0.0	H 1 970 5
2015	451.5	1.184.2	2.9 3.4	16.2	3.6	22.7	294.1	H08	59.6	0.0	R 0.8	0.0	0.0	R 2,013.8 R 2,013.7
2016	413.1	1,207.9	3.4	21.1	5.0	29.6	306.7	H06	55.1	0.0	R 0.8	0.0	0.0	R 2,013.7
2017	393.4	1,213.6	3.2 2.9	9.9	2.2	15.3	304.8	R 0.7	63.4	0.0	R 3.0	0.0	0.0	H 1 00/1 2
2018	314.9	1,294.9		16.0	3.1	22.0	306.5	R 0.8	62.2	0.0	R 8.2	0.0	0.0	R 2,009.4 R 1,957.9
2019 2020	223.2 174.9	1,351.5 1,394.3	1.8 1.6	12.4 15.6	1.2 0.6	15.4 17.8	303.9 307.3	R 0.7 R 0.8	49.8 45.1	0.0 0.0	R 13.3 R 22.2	0.0 0.0	0.0 0.0	R 1,957.9 R 1,962.5
2020	174.9	1,350.1	2.5	9.0	1.1	12.5	R 307.8	R 0.9	44.9	0.0	R 30.8	0.0	0.0	R 1 941 1
2022	194.3 167.4	1,424.4	4.6	9.3	0.5	14.3	320.9	0.8	36.7	0.0	38.7	0.0	0.0	R 1,941.4 2,003.2
		,												,

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Georgia

						Petroleum								
						Petroleum				+				
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>ℂ</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthour	s	Thousan	d barrels
1960 1965	3,548 6,116	182 211	5,140 8 531	4,253 5.424	2,306 2,158	32,079 39,136	6,551 8,413 10,279	5,390 8,205	55,720 71,867	0	2,306 3,234	0 0	NA NA	NA NA
1965 1970	8,131	211 333	8,531 12,781	5,424 7,430	2,158 10,506	39,136 54,081	10,279	7,026	71,867 102,104 109,928 120,027	Ō	3,234 2,519	0	NA	NA
1971	9,429	343	14.650	7.574	11.749	57.794	10.402	7,759	109,928	0	3,302 3,386	0	NA	NA
1972 1973	11,114 11,348	331 348	16,525 20,417	8,041 8,340	11,716 14,174	62,286 65,993	13,209 14,216	8,251 8,652	120,027 131 791	0	3,386 4,232	0	NA NA	NA NA
1974 1975	12,006	330 327	20,081 16,115	7,636 8,168	11,950 12,887	65,032 65,541	14,216 14,144 10,809	8,284	120,027 131,791 127,126 121,033 133,683 139,032 138,705 136,083	44	3,654 4,334	ő	NA	NA
1975	13,141	327	16,115	8,168	12,887	65,541	10,809	7.513	121,033	3,093	4,334	0	NA	NA
1976 1977	14,623 17,538	261 265	20,257 21,137	9,007 9,200	13,274 14,155	68,396 70,250	14,074 14,611	8,674 9,678	133,683	4,134 3,713	4,432 4,032	0	NA NA	NA NA
1978 1979	18,293 19,752	278	19,096	8,688 7,675	15,258	72,555	12.260	10,848	138,705	4,277	3,755	ŏ	NA	NA
1979	19,752	312	19,096 18,347	7,675	15,258 17,165	72,555 69,572	13,463	10,848 9,861	136,083	4,277 5,095	3,755 4,431 4,423 2,328 3,652	0	NA	NA
1980 1981	21,892 23,073	315 317	19,437	7,444 6,813	16,421	65,506 65,602	9,036 6,281	9,438 7,796	127,281 120,598 118,841	8,436 7,235	4,423	0	NA 11	NA NA
1982	22.295	295	19,276 18,374	6,367	14,829 15,085	66.046	5.395	7,574	118,841	6.606	3,652	0		NA NA
1983 1984	24,202 28,072	296 307	21,761 23,458	6 402	16,495 16,790	67,969 71,471	4,635 5,859	9,000	126,262 133,718	7.774	4,120 4,137	0	(s) (s)	NA
1984	28,072 29,898	307 282	23,458	6,168 6,825	16,790 16,236	71,471	5,859	9,971 8,545	133,718	5,472 10,130	4,137	0	(s) 0	NA NA
1985 1986	28,460	279	24,639 24,949	6,825 6,342	17,742	72,993 76,957	11,931 3,628	9,129	141,169 138,747 145,651	10,130 7,238	2,826 2,151	0	0	NA NA
1987	29.126	303	26.979	6,337 6,731	19.691	80.118	3.164	9.361	145,651	15,259 15,149	3,175 2,065	0	0	NA
1988 1989	28,654 27,918	323 318	28,802 28,101	6,731 7,394	20,295 17,451	83,520 83,571	3,118 2,637	9,420 8,246	151,886	15,149 24,961	2,065 3,894	0	15 87	NA NA
1990	30,067	311	28,927	6.021	18,439	83.148	3.491	9,760	149,785	24,797	4.589	0	209	NA
1990 1991	26.957	323	28,927 27,760	6,021 6,747	18,439 14,441	83,148 83,715	3,491 2,937	8.623	151,886 147,401 149,785 144,223	26.016	4,589 4,232	0	227	NA
1992 1993	25,481 27,081	343 351	27,574 30,874	7,185 7,614	12,422 15,204	83,906 93,036	6,800 5,478	8,704 9,430	146,591 161,637 163,039	27,996 27,233	4,915 4,457	0	61 113	NA NA
1994	29,254	342	31,104	7,514	16,936	93,493	4.728	9,430	163.039	28.927	4,437	0	32	NA
1995	31,288	374	31,104 34,292	7,548 7,288	18,451	97 672	4,103	9,413	171,219	30,661	4,331 4,197	Ō	3	NA NA
1996	31,158 32,846	385	40,426	7,490	17,293	101,063 101,576 106,860	4,777	9,476 9,096	180,525	29,925	4,679	0	0	NA NA
1997 1998	32,720	372 369	36,178 37,511	7,800 6,188	15,240 15,148	101,576	4,251 2,367	10,141	174,141 178,215	30,414 31,380	4,280 5,235	0	0	NA NA
1999 2000	33,491 35,149	338 414	40,637 42,597	6,899 9,112	15,316 13,046	109 920	2,199 2,710	12,538 10,046	187,509 188,629	31 478	2,751 2,481	Ő	Ö	NA
2000	35,149	414	42,597	9,112	13,046	111,119	2,710	10,046	188,629	32,473	2,481	0	0	NA
2001 2002	32,896 34,470	351 384	45,554 41,946	6,692 6,820	9,903 7 430	113,550 116,875	1,726 3,699	10,139 10,307	187,564 187,077	33,682 31,108	2,596 2,716	0	0	2
2003	35,111	384 380	44 173	6.290	7,430 8,790	118 244	4.429	9.699	187,077 191,625	33 257	2,596 2,716 4,140 3,692 4,032	ŏ	Ö	2
2004 2005	37,872	395 413	45,732 50,768	6,504	9,177	120,751 122,294	6,753	10,729	199,646 207,251	33,748 31,534	3,692	0	0	4
2005	40,887 40,477	413	50,768 47,937	6,310 6,090	9,576 6,552	122,294	7,648 9,937	10,655 10,795	207,251	31,534 32,006	4,032 2,569	0	683 987	2 4 12 35 48 41
2006 2007	40,477 42,317	420 441	47,937 45,635	6,090 5,729	6,552 6,726	120,440 121,069	9,937 7,029 7,842 7,048	10,795 10,781	201,750 196,970 182,703 192,955	32,006 32,545	2,569 2,236	Ö	1,460	48
2008	40.749	425	38,483 37,192	5.869	6.334	115,469 117,510	7,842	8,706 7,796	182,703	31,691 31,683	2,145 3,260	0	7,808	41
2009 2010	33,836 35,522	463 530	37,192	5,386 6,070	18,023 25,061	117,510 116.478	7,048 8,887	7,796 7,953	192,955 203,904	31,683 33,512	3,260 3,322	0	9,914 10,140	44 35 120 101
2011	30,061	523 616	39,455 37,830 35,745	5,053 5,385	25,061 24,834 23,812	116,478 111,615 110,669	11,154 6,392	6,571 5,470	197,058 187,472	32,306 33,942	2,705	ŏ	10,140 10,075 10,576	120
2012	21,696	616	35,745	5,385	23,812	110,669	6,392	5,470	187,472	33,942	2 236	0	10,576	101
2013 2014	21,370 23,481	625 652	38,318 39,461	4,582 5 404	24,449 24,704	114,919 110,487	4,386 2,116	5,692 5,062	192,347	32,903 32,570	3,714	0	11,037	513 470
2015	19,772	625 652 694	39,461 41,735	4,582 5,404 4,898	24,704 25,907	117.575	1.564	5,692 5,062 5,280 R 6,502 R 8,293 R 7,483	192,347 187,234 196,959 R 192,177 R 202,894	32,903 32,570 33,838	3,714 3,064 2,984	0	11,037 10,344 10,826	513 479 585
2016	19 704	707	39 267	4 744	26 122	114,183 119,546	1,358 1,063	R 6,502	R 192,177	34,481 33,709	3,373 2,410	0	10.767	987
2017 2018	17,105 17,289	690 730	43,699 38,327	4,168 5,196	26,125 25,778	119,546	1,063 1,716	H 8,293	H 202,894	33,709 34,363	2,410 3,697	0	11,570	1,160
2018	13,863	739 767	38,327	5,196 4,994	25,778 26,993	119,336 117,169	811	11 8 189	R 197,836 R 196,949 R 174,612	34,363	3,697 3,956	0	11,883 11,614 10,751	528 427 _ 481
2020	7.616	758	38 981	4.928	14 664	108 750	362	R 6,927 R 7,180	R 174,612	32.826	4.663	ŏ	10,751	
2021 2022	10,217 9,119	739 767 758 753 790	R 39,859 38,800	4,878 5,214	17,436 23,465	111,800 109,016	1,247 1,277	<sup>H</sup> 7,180 7,411	R 182,399 185,183	33,952	3,661	0	11,168 10,981	R 391 309
2022	9,119	790	30,000	5,214	23,405	109,016	1,2//	7,411	100,183	34,074	3,177		10,981	309

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Georgia (trillion Btu)

					Fossil	fuels						Fossil fuels	
						Petroleum						(as commingled)	T
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	89.0	188.5	29.9	16.2	12.4	168.5	41.2	33.1	301.4	578.8	188.5	29.9	168.5
1960 1965 1970 1971	152.6	219.8	29.9 49.7 74.5 85.3	20.7	11.6	168.5 205.6 284.1 303.6 327.2 346.7 341.6 349.3 369.0 381.1 365.5 344.1 346.9 357.0 375.4 383.4 404.3 420.9 438.7 439.8 439.8 440.8	41.2 52.9	33.1 49.9 43.4 47.5	301.4 390.4	578.8 762.8	188.5 219.8	29.9 49.7 74.5 85.3	168.5 205.6
1970	193.2 219.6	342.8 353.2	74.5	28.1 28.6	59.0 66.0	284.1	64.6 65.4	43.4	553.6 596.4	1,089.6 1,169.2	342.8 353.2	74.5	284.1 303.6
1971	219.6	353.2 341.4	85.3	28.6 30.2	65.8	303.6	83.0	47.5 50.0	596.4 653.5	1,169.2	353.2	85.3 96.3	303.6 327.2
1972 1973 1974	261.6 271.5 283.9	358.5	96.3 118.9 117.0	30.2 31.2 28.4	79.8	346.7	89.4	50.9 53.6 51.2	653.5 719.6 694.4	1,256.5 1,349.6 1,317.9	341.4 358.5 339.6	96.3 118.9 117.0	327.2 346.7 341.6
1974	283.9	358.5 339.6	117.0	28.4	79.8 67.2	341.6	89.4 88.9	51.2	694.4	1,317.9	339.6	117.0	341.6
1975 1976 1977	312.0 347.6	335.4 268.4 271.8	93.9	30.3 33.4 33.9	72.6 74.8	344.3	68.0 88.5	46.5	655.5 727.3	1,302.9 1,343.2	335.4	93.9 118.0	344.3
1976	347.6	268.4	118.0	33.4	74.8	359.3	88.5 91.9	53.3	727.3	1,343.2	268.4	118.0	359.3
1977	415.7	2/1.8 286.0	123.1	33.9	79.8 86.0	309.0	91.9 77.1	59.9 67.3	757.5 754.7	1,445.1	2/1.8	123.1 111.2	369.U 381.1
1978 1979	434.4 469.6	286.0 324.5	106.9	31.9 28.0 27.6 25.2	96.8	365.5	77.1 84.6 56.8 39.5	46.5 53.3 59.9 67.3 60.7 57.9 47.8	757.5 754.7 742.5 692.2 652.9	1,475.1 1,536.5	335.4 268.4 271.8 286.0 324.5 325.3 325.2	111.2 106.9	344.3 359.3 369.0 381.1 365.5 344.1 344.6 346.9 357.0
1980 1981	521.5 552.1	325.3 325.1	113.2	27.6	92.6 83.6	344.1	56.8	57.9	692.2	1,539.0 1,530.1 1,481.7 1,573.5	325.3	113.2 112.3	344.1
1981	552.1	325.1	112.3	25.2	83.6	344.6	39.5	47.8	652.9	1,530.1	325.2	112.3	344.6
1982 1983	535.4 584.8	303.3 303.1	107.0	23.3 23.6	85.0 93.0	346.9	33.9 29.1	46.7 56.0	642.9 685.6	1,481.7	303.5 303.2	107.0 126.8	346.9
1983	681.5	303.1 215.2	120.8	23.0	93.0 94.4	357.U 275.4	36.8	61.7	085.0 720.1	1,573.5	303.2	120.8	357.U 275.4
1985	725.7	315.3 289.6 286.5	143.5	25.0	91.5	383.4	75.0	52.8	728.1 771.7 753.5 791.7 825.1 797.1 815.5	1,724.9 1,787.0 1,732.5	315.3 289.7 286.6 311.3 331.1	136.6 143.5 145.3 157.2 167.8	375.4 383.4 404.3 420.9 438.7 439.0 436.8 439.8 440.8 485.4 487.5 508.3 526.6
1985 1986 1987 1988	725.7 692.5	286.5	145.3	25.4 23.6 23.7 25.1 27.7	100.1	404.3	75.0 22.8	52.8 57.4	753.5	1,732.5	286.6	145.3	404.3
1987	710.6	311.1 330.9	157.2	23.7	111.2	420.9	19.9	58.9 59.3	791.7	1,732.5 1,813.3 1,855.0 1,789.4 1,848.8 1,755.5 1,759.7 1,887.5	311.3	157.2	420.9
1988	699.0	330.9	167.8	25.1	114.6	438.7	19.6	59.3	825.1	1,855.0	331.1	167.8	438.7
1989	555.8 71.4.1	325.6 319.2	163.7 168.5	27.7	98.5 104.2	439.0 436.8	16.6 21.9	51.6 61.7	/9/.1 915.5	1,789.4 1 848 8	325.9	163.7 168.5	439.0 436.8
1989 1990 1991	666.8 714.1 643.4	331.6	161.7	22.4 25.0 26.7 28.2	81.5	439.8	18.5	51.6 61.7 54.2 54.5 59.1	780.6	1,755.5	325.9 319.4 331.8 351.5 360.2	161.7	439.8
1992 1993	613.1 655.2	351.4 360.0	160.6	26.7	70.0 85.8	440.8	42.7 34.4	54.5	780.6 795.2 872.3	1,759.7	351.5	160.6 179.8	440.8
1993	655.2	360.0	179.8	28.2	85.8	485.0	34.4	59.1	872.3	1,887.5	360.2	179.8	485.4
1994 1995 1996	685.8 723.8	351.9 383.4 393.4	181.0	28.1 27.1 27.7	95.9 104.6 98.0	487.4 508.3 526.6	29.7 25.8	57.9 59.3 59.6	880.1	1,917.7 2,031.8 2,093.8	352.0 383.5 393.5	181.0 199.6 235.3 210.6	487.5
1995	723.8 723.1	383.4 393.4	199.6	27.1 27.7	104.6 98.0	508.3 526.6	25.8 30.0	59.3 59.6	924.6 977.3	2,031.8	383.5	199.6 235.3	508.3 526.6
1997	768.0	381.7	210.6	29.0	86.4	528.7	26.7	57.0	938.4	2.088.0	381.7	210.6	528.7
1997 1998	767.4	378.5	218.3	29.0 23.1	85.9	556.0	26.7 14.9	63.5	961.6	2,088.0 2,107.5	381.7 378.6 347.1	218.3 236.5 247.9	528.7 556.0
1999	782.6 819.5	347.1	236.5	25.7	86.8	571.8	13.8 17.0	78.9	1,013.5	2,143.2 2,254.2 2,145.7	347.1	236.5	571.8
2000 2001	819.5	421.3 362.6	247.9	33.5	74.0 56.2	577.9	17.0	63.1	1,013.4	2,254.2	421.3	247.9	577.9
2001	772.0 807.1	362.6 393.1	205. I 244 1	24.6 25.0	56.2 42.1	590.6 607.6	10.8	63.8 64.5	1,011.0	2,145.7 2,206.8	362.7 393.1	265.1 244.1	590.6 607.6
2003	819.0	390 8	257.0	25.7 33.5 24.6 25.0 23.4 24.3 23.3	42.1 49.8	528.7 556.0 571.8 577.9 590.6 607.6 614.5 627.4 632.6	23.3 27.8	78.9 63.1 63.8 64.5 60.8	880.1 924.6 977.3 938.4 961.6 1,013.5 1,013.4 1,011.0 1,006.6 1,033.4 1,079.6 1,120.3 1,089.0 1,052.6 946.2	2 243 2	390 8	<i>257 0</i>	590.6 607.6 614.5
2004 2005	835.0 901.0	406.4 427.8	266.1	24.3	52.0 54.3	627.4	42.5 48.1	67.4 66.7	1,079.6	2,321.1 2,449.2	406.4 427.8	266.1 295.4	627.4 635.0
2005	901.0	427.8	295.4	23.3	54.3	632.6	48.1	66.7	1,120.3	2,449.2	427.8	295.4	635.0
2006 2007 2008	892.7 934.8 885.8	433.9 455.2 436.1	278.2	22.4 21.1 21.8	37.1	621.1	62.5 44.2 49.3	67.8 67.7 54.3	1,089.0	2,415.7 2,442.6 2,268.2	433.9 455.2 436.1	278.2 264.0 222.4	624.5 622.5 589.6
2007	934.0 885.8	433.2 436.1	204.0 222 /	21.1 21.8	38.1 35.9	562.5	44.2 49.3	5/./	946.2	2,442.0	435.2 436.1	204.0 222 A	622.5 589.6
2009	723.4	475.2	212.8	19.9	102.2	563.8	44.3	48.9	991.8	2.190.5	475.3	214.9	598.1
2009 2010	723.4 767.9	475.2 540.9	226.4	19.9 23.3	102.2 142.1 140.8	555.0	44.3 55.9	49.5	991.8 1,052.2	2,361.1	475.3 541.7	214.9 227.9	598.1 590.2
2011	634.8 435.5 426.2	531.6 624.3 634.6	214.8	19.4	140.8	621.1 617.5 562.5 563.8 555.0 530.2 523.5 543.2 523.0 557.0	70.1 40.2	48.9 49.5 40.8 33.9	1,016.1	2,190.5 2,361.1 2,182.5 2,016.0	532.3 625.0	218.3 206.1	565.1 560.2 581.5 559.0 594.6 577.2 604.1
2012	435.5	624.3	202.8	20.7 17.6	135.0 138.6	523.5	40.2 27.6	33.9 34.4	956.1		625.0	206.1 220.8	560.2
2013 2014	420.2 482 7	664.8	214.3 221 1	20.8	130.6	543.2 523.0	∠≀.0 13.3	34.4 30.2	975.7 948 5	2,036.5 2,095.5 2,104.8 2,098.5 R 2,082.4 R 2,098.0 R 2,056.2 R 1,808.2	635.3 665.5	220.8 227 4	561.5 559.0
2015	482.7 394.7	712.6	233.2	18.8	140.1 146.9	557.0	13.3 9.8	210	997.5	2,104.8	712 1	227.4 240.5 226.1 251.6	594.6
2016 2017	399.3 344.3	727.3 709.7	217.2	18.2 16.0	148.1 148.1	539.8 563.8 561.7 551.5 512.0	8.5 6.7	40.0	971.9	2,098.5	773.7 727.9 710.2 759.7 787.4 779.8	226.1	577.2
2017	344.3	709.7	242.0	16.0	148.1	563.8	6.7	H 51.8	<sup>H</sup> 1,028.4	H 2,082.4	710.2	251.6	604.1
2018 2019	340.2 273.1	759.2 786.9 779.3	213.5	20.0 19.2	146.2 153.1	561.7 551.5	10.8	11 46.5 R 51 2	11 998.7 R ogs 2	R 2,098.0	/59.7 787 4	220.7 223.4	603.1 501.0
2019	153.2	700.9 779.3	216.3	18.9	83.1	51.5 512.0	5.1 2.3	R 43 1	R 875 7	R 1 808 2	779.8	224 4	549 4
2021	203.9	773.9 812.4	93.9 118.0 123.1 111.2 106.9 113.2 112.3 107.0 126.8 136.6 143.5 145.3 157.2 167.8 163.7 160.6 179.8 181.0 199.6 235.3 210.6 247.9 265.1 244.1 257.0 268.1 295.4 279.2 264.0 222.4 212.8 226.4 214.8 226.4 214.8 226.4 214.8 226.4 214.8 226.4 214.8 226.4 214.8 226.4 214.8 226.4 214.8 226.4 214.8 226.4 217.2 242.0 213.5 216.6 217.2 242.0 213.5 216.6 217.2 242.0 213.5 216.6 216.6 217.2 242.0 213.5 216.6 216.6 217.2 224.0 213.5 216.6 216.6 217.2 224.0 213.5 216.6 216.6 217.2 224.0 213.5 216.6 216.6 216.6 217.2 226.4 217.2 226.0 218.3 220.4	18.7	98.9	525.7 512.2	7.8	40.0 R 51.8 R 46.5 R 51.2 R 43.1 R 44.6 45.9	1,052.2 1,016.1 956.1 975.7 948.5 997.5 971.9 81,028.4 R 998.7 R 996.2 R 875.7 R 920.9	1,898.6	774.3	R 229.7 223.7	603.1 591.9 549.4 564.6 550.4
2022	180.9	812.4	220.4	20.0	133.0	512.2	8.0	45.9	938.6	1,931.9	812.8	223.7	550.4

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Georgia (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 7.9	71.2	NA	NA	NA	NA	71.2	0.0	NA	NA	R 79.1	R 24.0 R 42.3 R 70.6 R 50.4 R 44.1 R 64.5 R 31.3 R 8.7	0.0	R 681.9
1965 1970	0.0 0.0	R 11.0 R 8.6	74.2 71.8	NA NA	NA NA	NA NA	NA NA	74.2 71.8	0.0 0.0	NA NA	NA NA	R 85.2 R 80.4 R 85.7	H 42.3	0.0 0.0	R 890.3 R 1,240.6 R 1,305.3 R 1,391.7
1970	0.0	R 11 3	71.8 74.4	NA NA	NA NA	NA NA	NA NA	71.8 74.4	0.0	NA NA	NA NA	R 85.7	R 50.4	0.0	R 1,240.6
1972	0.0	R 11.6	79.6	NA	NA	NA	NA	79.6	0.0	NA	NA	H 91 2	R 44.1	0.0	R 1,391.7
1973 1974	0.0 0.5	R 14.4 R 12.5	81.6 83.4	NA NA	NA NA	NA NA	NA NA	81.6 83.4	0.0 0.0	NA NA	NA NA	R 96.1 R 95.9	H 64.5	0.0 0.0	R 1,510.2 R 1,445.6
1975	34.1	R 14.8	78.3	NA NA	NA NA	NA NA	NA NA	78.3	0.0	NA NA	NA NA	H 93.1	R 8.7	0.0	R 1,445.6 R 1,438.8 R 1,504.2
1976	45.7	R 1 = 1	89.2	NA	NA	NA	NA	89.2	0.0	NA	NA	H 10/ 2	R 11.0 R -2.9	0.0	R 1,504.2
1977	40.0	R 13.8 R 12.8	94.0 99.3	NA	NA	NA	NA	94.0	0.0	NA	NA	R 107.8 R 112.1	H -2.9	0.0	R 1,590.0 R 1,634.6
1978 1979	46.8 55.4	H 15 1	103.3	NA NA	NA NA	NA NA	NA NA	99.3 103.3	0.0 0.0	NA NA	NA NA	H 118 4	R -27 7	0.0 0.0	H 1 600 7
1980 1981	92.0 79.8	R 15.1 _R 7.9	98.1 98.4	NA	NA	NA	NA	98.1 98.4	0.0	NA	NA NA	R 113 2	R-0.6 R-27.7 R-75.4 R-68.2 R-49.5 R-92.1 R-101.0 R-43.7 R-101.0 R-43.7	0.0 0.0	R 1,668.8 R 1,648.0
1981	79.8	<sup>H</sup> 7.9 R 12.5	98.4	(s)	NA NA	NA NA	0.0	98.4	0.0 0.0	NA NA	NA NA	R 106.4 R 118.2	H -68.2	0.0	H 1,648.0 R 1,623.4
1982 1983	73.1 84.8	R 14 1	105.7 107.8	(s) (s)	NA NA	NA NA	0.0	105.7 107.8	0.0	NA NA	0.0	R 121 g	R -49.5	0.0 0.0	H 1 600 N
1984	59.3	H 14.1	116.3	(s) 0.0	NA	NA	0.0	116.3	0.0	0.0	0.0	R 130.4 R 126.3	B -101.1	0.0	R 1,813.5 R 1,874.5
1985	107.6	R 9.6 R 7.3	116.7	0.0	NA	NA	0.0	116.7	0.0	0.0	0.0	H 126.3	R <sub>-146.4</sub>	0.0	H 1,874.5
1986 1987	76.6 159.3	R <sub>_10.8</sub>	119.2 113.0	0.0 0.0	NA NA	NA NA	0.0 0.0	119.2 113.0	0.0 0.0	0.0 0.0	0.0 0.0	R 126.6 R 123.8	R -101 0	0.0 0.0	R 1,891.9 R 1,995.4
1988	160.6	R 7 0	117.4	0.1	NA	NA	0.0	117.4	0.0	0.0	0.0	H 12/15	R -48.7	0.0	T 2 001 /
1989	264.2	B 13.3	177.5	0.3	NA	NA	0.0	177.8	(s)	0.1	0.0	R 191.3	R -48.7 R -84.0 R -126.9 R -49.3	0.0	R 2,160.9 R 2,188.4 R 2,176.9
1990 1991	262.4 272.8	R 15.7 R 14.4	187.6 182.6	0.7 0.8	NA NA	NA NA	0.0 0.0	188.3 183.4	(s) (s)	0.1 0.1	0.0 0.0	R 204.1 R 198.0	1126.9 R _403	0.0 0.0	R 2 176 0
1992	293.1	H 16.8	183.5	0.2	NA	NA	0.0	183.7	(s)	0.1	0.0	H 200 6	R -35.6 R -9.7 R -36.0 R 4.2	0.0	R 2,218.0 R 2,373.5 R 2,395.2 R 2,578.3
1993	286.1	H 15.2	193.9	0.4	NA	NA	0.0	194.3	(s) (s)	0.1	0.0	H 209.7	R -9.7	0.0	R 2,373.5
1994 1995	302.3 322.2	R 14.8 R 14.3	196.0 205.6	0.1	NA NA	NA NA	0.0 0.0	196.1 205.6	(S) (S)	0.1 0.2	0.0 0.0	R 211.0 R 220.2	11-36.0 R <sub>A 2</sub>	0.0 0.0	R 2 578 3
1996	314.3	H 16 0	208.3	(s) 0.0	NA NA	NA	0.0	208.3	0.1	0.2	0.0	R 224.4 R 233.4	R 94.3 R 68.9	0.0	R 2,726.9 R 2,726.9 R 2,709.4 R 2,744.3 R 2,779.8 R 2,901.4 R 2,797.7 R 2,912.0
1997	319.2	R 14.6	218.5	0.0	NA	NA	0.0	218.5	0.1	0.2	0.0	R 233.4	R 68.9	0.0	R 2,709.4
1998	329.2	R 17.9 R 9.4	202.9	0.0 0.0	NA NA	NA NA	0.0 0.0	202.9	0.1 0.1	0.2	0.0	R 221.1 R 212.4	R 86.5	0.0	<sup>n</sup> 2,744.3 R 2 770 g
1999 2000	328.9 338.7	Res	202.7 196.6	0.0	NA NA	NA	0.0	202.7 196.6	0.1	0.2 0.2	0.0 0.0	R 212.4 R 205.3	R 103.2	0.0 0.0	R 2,901.4
2001	351.7	R 8.9	164.9	0.0	(s)	NA	0.0	164.9	0.1	0.2 0.2	0.0	H 174 1	R 126.2	0.0	R 2,797.7
2002	324.8	R 9.3 R 14.1	255.7 179.4	0.0 0.0	(s) (s)	NA NA	0.0 0.0	255.7 179.4	0.1 0.1	0.2	0.0 0.0	R 265.4	P 114.9	0.0	R 2,912.0
2003 2004	346.6 351.9	R 12 6	189.4	0.0	(S)	NA NA	(s)	189.4	0.1	0.2 0.2	0.0	R 193.9 R 202.4	R 95.3 R 103.2 R 126.2 R 114.9 R 139.4 R 189.9	0.0 0.0	R 2,923.1 R 3,065.2
2005	329.1	R 13.8	175.3	2.4	0.1	NA	(s)	177.7	0.2	0.2	0.0	H 191 9	R 110.0 R 122.9 R 85.1 R 141.9 R 161.9 R 179.0	0.0	R 3,080.1 R 3,066.6
2006 2007	334.0 341.4	R 8.8 R 7.6	181.3 177.9	3.4 5.1	0.2 0.3	NA NA	(s) (s)	184.9 183.3	0.2 0.2	0.2 0.2	0.0 0.0	R 194.1 R 191.4	H 122.9 R 95.1	0.0 0.0	H 3,066.6
2008	331.2	R 7.3	148.0	27 1	0.2	NA NA	1.4	176.7	0.2	0.3	0.0	H 184.5	R 141.9	0.0	R 3,066.6 R 3,060.4 R 2,925.9 R 2,883.7 R 3,116.5
2009	331.4	H 11 1	148.1	34.3 35.1	0.2	NA	5.5	188.2	0.3	0.3 R 0.3	0.0	H 100 0	R 161.9	0.0	R 2,883.7
2010 2011	350.3 338.1	R 11.3 R 9.2	173.5 179.9	35.1 34.9	0.2 0.6	NA 0.0	5.3 4.3	214.2 219.7	0.3 0.3	H 0.3 R 0.4	0.0 0.0	R 226.2 R 229.6	H 179.0	0.0 0.0	R 3,116.5 R 2,996.2
2012	355.7	H 7 6	175.2	34.9 36.7	0.6	0.0	4.3 3.2	215.7	0.3	R 0.5 R 0.7	0.0	H 224 1	R 246.0 R 218.3 R 223.3 R 222.7	0.0	
2013	343.8	H 12 7	202.8	36.7 38.3	0.5 2.7	0.0	3.0	246.9	0.3	R 0.7	0.0	R 260.6	R 223.3	0.0	R 2,864.2 R 2,936.4
2014 2015	340.7 353.9	R 10.5 R 10.2	222.0 224.4	35.9 37.6	2.6 3.1	0.0 0.0	4.8	265.3 R 270.4	0.3	R 1.1	0.0 0.0	R 277.1 R 282.0	H 222.7	0.0 0.0	R 2,936.4 R 2,940.7
2016	360.6	R 11.5	207.8	37.4	5.1 5.3	0.0	5.2 6.0	R 256.6	0.3 0.3	R 1.1 R 4.0 R 7.9	0.0	R 272 4	R 200.1 R 174.6 R 175.7 R 215.3 R 212.1	0.0	R 2,940.7
2017	352.6	R 11.5 R 8.2	198.3	40.2	5.3 6.2	0.0	5.7	R 256.6 250.4	0.3	R 7.9	0.0	R 272.4 R 266.8	R 175.7	0.0	R 2,906.1 R 2,877.4
2018	359.3	R 12.6 R 13.5	R 199.1 207.5	41.4	2.8	0.0	5.4	248.7	0.3	R 8.1 R 8.8	0.0	R 269.7 R 279.0	H 215.3	0.0	R 2,942.3 R 2,898.1
2019 2020	350.8 342.9	H 15.9	H 207.7	40.4 37.4	2.3 2.6	0.0 0.0	6.2 2.6	256.4 R 250.2	0.3 0.3	R 14 4	0.0 0.0	R 280.8	R 216.1	0.0 0.0	R 2,698.1
2020 2021	R 354.1	R 12.5	R 211.6	38.9	R 2.1	0.0	(s)	H 252.5	0.3	H 18.2	0.0	<sup>H</sup> 283.6	R 216.4 R 219.6	0.0	R 2,648.4 R 2,755.9
2022	355.4	10.8	210.4	38.2	1.7	0.0	(s)	250.3	0.3	25.3	0.0	286.8	262.2	0.0	2,836.2

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Georgia

1970 633 2 1980 701 3 1980 701 3 1980 701 3 1990 2,255 3 2000 1,999 3 2005 1,749 3 2006 1,587 3 2007 1,514 3 2009 1,051 3 2010 1,253 3 2011 1,168 3 2012 859 3 2011 1,168 3 2012 859 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 1960 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2005 44.7 35 2006 40.7 33 2005 44.7 35 2008 36.7 33 2009 26.8 32 2009 26.8 32 2009 26.8 32 2000 1,999 3 2008 36.7 33 2009 26.8 32 2009 26.8 32 2000 1,999 3 2009 26.8 32 2009 26.8 32 2009 26.8 32 2000 200 305.7 33	157 274 312 309 372 340 325 319 329	5,139 12,724 19,022 28,709 41,588 50,481 47,801	4,253 7,430 7,444 6,021 9,112	Jet fuel <sup>d</sup> T  2,306 10,506 16,421 18,439	Motor gasoline <sup>e</sup> 'housand barrels 32,079 54,081	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup> Million kilowatt-	Wood and	Losses			Electricity		Electrical system	
Year         short tons         cubic fee           1960         940         1           1970         633         2           1980         701         3           1980         701         3           2000         1,999         3           2000         1,999         3           2006         1,587         3           2007         1,514         3           2008         1,453         3           2010         1,253         3           2011         1,168         3           2012         859         3           2013         736         3           2014         821         3           2015         465         3           2016         432         3           2017         335         3           2018         336         3           2019         312         3           2020         275         3           2021         288         3           2022         261         3           1960         15.0         28           1980         17.1         32 </th <th>157 274 312 309 372 340 325 319 329</th> <th>12,724 19,022 28,709 41,588 50,481</th> <th>7,430 7,444 6,021 9,112</th> <th>2,306 10,506 16,421</th> <th>32,079</th> <th></th> <th></th> <th></th> <th>kilowatt-</th> <th></th> <th></th> <th>_</th> <th></th> <th></th> <th></th> <th>evetem</th> <th></th>	157 274 312 309 372 340 325 319 329	12,724 19,022 28,709 41,588 50,481	7,430 7,444 6,021 9,112	2,306 10,506 16,421	32,079				kilowatt-			_				evetem	
1970 633 2 1980 701 3 1980 701 3 1980 701 3 1990 2,255 3 2000 1,999 3 2005 1,749 3 2006 1,587 3 2007 1,514 3 2009 1,051 3 2010 1,253 3 2011 1,168 3 2012 859 3 2011 1,168 3 2012 859 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 1960 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2005 44.7 35 2006 40.7 33 2005 44.7 35 2008 36.7 33 2009 26.8 32 2009 26.8 32 2009 26.8 32 2000 1,999 3 2008 36.7 33 2009 26.8 32 2009 26.8 32 2000 1,999 3 2009 26.8 32 2009 26.8 32 2009 26.8 32 2000 200 305.7 33	274 312 309 372 340 325 319 329	12,724 19,022 28,709 41,588 50,481	7,430 7,444 6,021 9,112	10,506 16,421		6.512			hours	waste h,i	and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	energy losses n	Total <sup>h,m</sup>
1980 701 3 1990 2,255 3 2000 1,999 3 2005 1,749 3 2006 1,587 3 2007 1,514 3 2008 1,453 3 2010 1,253 3 2011 1,168 3 2012 859 3 2011 2,168 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 1960 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2008 36.7 33 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32	312 309 372 340 325 319 329	19,022 28,709 41,588 50,481	7,444 6,021 9,112	16,421	54,081		5,390	55,679	63					11,990			
1990 2,255 3 2000 1,999 3 2005 1,749 3 2006 1,587 3 2007 1,514 3 2009 1,051 3 2010 1,253 3 2011 1,168 3 2011 1,168 3 2014 821 3 2015 465 3 2016 432 2 2017 335 3 2018 336 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 208 32 36 16 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2008 36.7 33 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32	309 372 340 325 319 329	28,709 41,588 50,481	6,021 9,112			8,737	7,026	100,504	58					31,500			
2000 1,999 3 2005 1,749 3 2006 1,587 3 2007 1,514 3 2008 1,453 3 2009 1,051 3 2011 1,168 3 2012 859 3 2013 736 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 2020 275 3 2021 288 3 2022 261 3 2020 275 3 2021 38 36 3 2019 312 3 2020 375 32 3 2021 38 336 3 2022 38 3 2021 38 38 3 2022 38 3 2022 38 3 2023 38 38 38 38 38 38 38 38 38 38 38 38 38	372 340 325 319 329	41,588 50,481	9,112		65,506 83,148	8,366 3,377	9,438 9,760	126,196 149,452	54 36					51,209 80,440			
2005 1,749 3 2006 1,587 3 2007 1,514 3 2008 1,453 3 2009 1,051 3 2010 1,253 3 2011 1,168 3 2012 859 3 2013 736 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 2020 275 3 2021 288 3 2022 261 3 2000 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2000 308 7.7 33	340 325 319 329	50,481		13,046	111,119	2,127	10,046	187,038	22					119,185			
2007 1,514 2 2008 1,453 3 2009 1,051 3 2010 1,253 3 2011 1,168 3 2011 2,859 3 2013 736 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 2020 275 3 2021 288 3 2022 261 3 2020 275 3 2021 388 3 2022 361 3 2000 51.3 377 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32 2009 26.8 32	319 329	47,801	6,310	9,576	122,294	7,465	10,655	206,781	20					132,265			
2008 1,453 2 2009 1,051 3 2009 1,051 3 2010 1,253 3 2011 1,168 3 2012 859 3 2013 736 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 32 2020 275 3 2021 288 3 2022 261 3 2021 288 3 2022 261 3 2021 3 2020 3 203 6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2009 26.8 32 2009 26.8 32	329		6,090	6,552	120,440	9,881	10,795	201,558	23					134,834			
2009 1,051 3 2010 1,253 3 2011 1,168 3 2012 859 3 2013 736 3 2014 821 3 2015 465 3 2017 335 3 2018 336 3 2019 312 2 2020 275 3 2021 288 3 2022 261 3 2020 275 3 2021 38 3 2022 261 3 2020 375 3 2021 38 32 3 2022 36 3 2022 36 3 2022 36 3 2023 36 36 3 2024 38 36 3 2025 36 36 36 3 2006 40.7 35 3 2006 40.7 35 3 2007 38.9 32 2008 36.7 33 2009 26.8 32 2009 26.8 32 2010 32.0 366		45,476	5,729	6,726	121,069	6,995	10,781	196,777	19					137,454			
2010 1,253 3 2011 1,168 3 2011 1,168 3 2012 859 3 2013 736 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 2020 275 3 2021 38 36 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 366		38,319 37,002	5,869 5,386	6,334 18,023	115,469 117,510	7,835 7,044	8,706 7,796	182,531 192,761	22 8					135,174 130,766			
2011 1,168 3 2012 859 3 2013 736 3 2014 821 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 2 2020 275 3 2021 288 3 2022 261 3 2022 261 3 2021 288 3 2022 3261 3 2020 3275 3 2021 328 32022 3261 3 2022 3261 3 2022 3261 3 2022 3261 3 2023 326 326 326 326 326 326 326 326 326 3	320 355	39,255	6,070	25,061	116,478	8,875	7,750	203,692	22					140,672			
2013 736 3 2014 821 3 2014 821 3 2015 465 3 2016 432 3 2017 335 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 2022 261 3 2030 56.7 31 2000 51.3 37, 2005 44.7 35, 2006 40.7 33, 2007 38.9 32, 2008 36.7 32, 2009 26.8 32, 2010 32.0 366	326	37,668	5,053	24,834	111,615	11,141	6,571	196,884	19					136,371			
2014 821 3 2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 2022 261 3 2020 275 3 2021 288 3 2022 261 3 2022 36 16 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 366	308	35,616	5,385	23,812	110,669	6,392	5,470	187,343	19					130,979			
2015 465 3 2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3  1960 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 366	346	38,188	4,582	24,449	114,919	4,386	5,692	192,217	23					130,497			
2016 432 3 2017 335 3 2018 336 3 2019 312 3 2020 275 3 2021 288 3 2022 261 3 2022 261 3 1960 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 366	362 339	39,118 41,496	5,404 4,898	24,704 25,907	110,487 117,575	2,106 1,557	5,062 5,280	186,880 196,712	18 21					135,790 135,878			
2017 335 35 2018 336 3 2019 312 3 3 2020 275 3 2021 288 3 2022 261 3 3 2022 261 3 3 2022 261 3 3 2022 2008 36.7 33 2009 26.8 32 2010 32.0 366	327	39.086	4,744	26,122	114,183	1,358	R 6,502	R 191,996	16					138,112			
2019 312 3 2020 275 3 2021 288 3 2022 261 3 2022 2024 3 2024 3 2025 44.7 35 2026 40.7 33 2026 40.7 33 2027 38.9 32 2028 36.7 33 2029 26.8 32 2010 32.0 366	319	43,508	4,168	26,125	119,546	1,063	R 8,293	R 202,703	19					133,457			
2020 275 3 2021 288 3 2022 261 3 2022 261 3 1960 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 366	365	37,893	5,196	25,778	119,336	1,716	R 7,483	R 197,402	11					139,866			
2021 288 3 2022 261 3 1960 23.6 16 1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 366	340	38,643	4,994	26,993	117,169	811	R 8,189	R 196,799	18					139,301			
2022 261 3  1960 23.6 16. 1970 15.0 28. 1980 17.1 32. 1990 56.7 31. 2000 51.3 37. 2005 44.7 35. 2006 40.7 33. 2007 38.9 32. 2008 36.7 33. 2009 26.8 32. 2010 32.0 36.	331	38,878 R 39,711	4,928	14,664	108,750	362	R 6,927 R 7,180	R 174,509 R 182,251	21					133,470			
1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 36.	350 357	38,423	4,878 5,214	17,436 23,465	111,800 109,016	1,247 1,277	7,180	184,807	20 13					137,364 145,035			
1970 15.0 28 1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 36.								Trillion	Btu								
1980 17.1 32 1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 366	162.2	29.9	16.2	12.4	168.5	40.9	33.1	301.2	R <sub>0.2</sub>	71.2	NA	NA	NA	40.9	R 599.4	R 82.5	R 681.9
1990 56.7 31 2000 51.3 37 2005 44.7 35 2006 40.7 33 2007 38.9 32 2008 36.7 33 2009 26.8 32 2010 32.0 36	282.3	74.1	28.1	59.0	284.1	54.9	43.4	543.6	R 0.2	71.8	NA	NA	NA	107.5	R 1,020.4	R 220.2	R 1,240.6
2000         51.3         37           2005         44.7         35           2006         40.7         33           2007         38.9         32           2008         36.7         33           2009         26.8         32           2010         32.0         36	321.5	110.8	27.6	92.6	344.1	52.6	57.9	685.6	R 0.2 R 0.1	98.1	NA	NA	NA	174.7	R 1,297.1	R 371.7	R 1,668.8 R 2,188.4
2005         44.7         35.           2006         40.7         33.           2007         38.9         32.           2008         36.7         33.           2009         26.8         32.           2010         32.0         36.	317.4 378.6	167.2 242.0	22.4 33.5	104.2 74.0	436.8 577.9	21.2 13.4	61.7 63.1	813.5 1.003.9	R 0.1	187.6 196.5	0.0	(s) 0.1	0.1 0.2	274.5 406.7	R 1,650.5 R 2.037.2	R 538.0 R 864.2	R 2,901.4
2006     40.7     33       2007     38.9     32       2008     36.7     33       2009     26.8     32       2010     32.0     36	352.3	293.7	23.3	54.3	635.0	46.9	66.7	1,119.9	R 0.1	175.1	(s)	0.2	0.2	451.3	R 2,143.7	R 936.4	R 3,080.1
2008     36.7     33       2009     26.8     32       2010     32.0     36	334.7	277.4	22.4	37.1	624.5	62.1	67.8	1,091.3	R 0.1	181.1	(s)	0.2	0.2	460.1	R 2,108.6	R 958.1	R 3,066.6
2009 26.8 32 2010 32.0 36	328.6	263.0	21.1	38.1	622.5	44.0	67.7	1,056.5	R <sub>0.1</sub>	177.8	(s)	0.2	0.2	469.0	R 2,071.6	R 988.7	R 3,060.4
2010 32.0 36	336.4	221.5	21.8	35.9	589.6	49.3	54.3	972.3	R <sub>0.1</sub>	147.6	1.4	0.2	0.3	461.2	R 1,956.5	R 969.4	R 2,925.9
	327.8	213.8 226.7	19.9 23.3	102.2 142.1	598.1 590.2	44.3 55.8	48.9 49.5	1,027.1 1.087.6	R (s) R 0.1	147.7 170.1	5.5 5.3	0.3 0.3	0.3 R 0.3	446.2 480.0	R 1,981.6 R 2,137.8	R 903.9 R 979.9	R 2,885.5 R 3,117.8
2011 29.5 33	332.4	226.7	19.4	142.1	590.2 565.1	70.0	49.5	1,053.5	R 0.1	170.1	4.3	0.3	R 0.4	465.3	R 2,062.2	R 936.7	R 2,999.0
	312.4	205.4	20.7	135.0	560.2	40.2	33.9	995.4	R 0.1	171.6	3.2	0.3	R 0.4	446.9	R 1,951.9	R 864.9	R 2,816.8
2013 18.8 35	351.0	220.1	17.6	138.6	581.5	27.6	34.4	1,019.8	R 0.1	195.5	3.0	0.3	R 0.6	445.3	R 2,034.1	R 833.9	R 2,868.0
	368.4	225.4	20.8	140.1	559.0	13.2	30.2	988.7	R 0.1	213.2	4.8	0.3	R 0.7	463.3	R 2,060.4	R 879.8	R 2,940.1
	346.6	239.1	18.8	146.9	594.6	9.8	31.8	1,040.9	R 0.1	R 215.1	5.2	0.3	R 0.7 R 1.0	463.6	R 2,084.4	R 860.4 R 868.1	R 2,944.8
	336.6 328.4	225.0 250.5	18.2 16.0	148.1 148.1	577.2 604.1	8.5 6.7	40.0 R 51.8	1,017.1 R 1.077.1	0.1 R 0.1	R 198.3 184.8	6.0 5.7	0.3	<sup>11</sup> 1.0	471.2 455.4	R 2,041.5 R 2.060.9	R 819.8	R 2,909.6 R 2,880.8
	340.4	250.5	20.0	148.1	603.1	10.8	R 46.5	R 1,044.8	R (s)	184.8	5.7	0.3	R 1.3	455.4 477.2	R 2,100.0	R 846.7	R 2,946.7
		222.5	19.2	153.1	591.9	5.1	R 51.2	R 1,043.0	R 0.1	192.8	6.2	0.3	R 1.4	475.3	R 2,076.0	R 827.0	R 2,903.1
2020 6.9 34	375.3 349.3	223.8	18.9	83.1	549.4	2.3	R 43.1	R 920.6	R 0.1	R 184.2	2.6	0.3	R 1.5	455.4	R 1,911.5	R 742.4	R 2,653.9
	375.3 349.3 340.1	R 228.9	18.7	98.9	564.6	7.8	R 44.6	R 963.5	R 0.1	R 184.2	(s)	0.3	R 1.6	468.7	R 1,984.6	R 773.9	R 2,758.5
2022 6.5 36	375.3 349.3 340.1 359.1	221.5	20.0	133.0	550.4	8.0	45.9	978.9	(s)	184.0	(s)	0.3	1.7	494.9	2,033.3	805.5	2,838.8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Georgia

				Petr	oleum		Biomass						
-	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>¢</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	226	56	131	2,032	633	2,796				4,469			
1965 1970	110	67 87	211 250	2,758	460 121	3,429 4,085				6,936 12,474			
1970	71	87	250	3,714	121	4,085				12,474			
1975 1980 1985	15 5	87	298 578 395	3,474	34	3,807 3,837 4,176				16,457 20,033 23,505			
1980	5	90 84	578	3,168 3,524	91 257	3,837				20,033			
1985	8	90	395	3,524	111	4,176				23,505			
1995	8	115	297 164	3,032 3,568	126	3,440 3,857				29,933 35,812 44,560			
2000	1	141	72	4,166	198	4 435				44 560			
2005	4	125	72 42 31	2.839	68	2.948				52.827			
2005 2006	Ó	125 110	31	2,839 2,560	68 63	2,654				54,521			
2007	(s)	112	28	2.591	39	2,948 2,654 2,658				52,827 54,521 56,223			
2008	0	119	32 28 21	2,898	17 33 35	2,947 2,876				55,587 55,158 61,554			
2009	0	119	28	2,815 3,299	33	2,876				55,158			
2010	0	139	21	3,299	35	3,355				61,554			
2011 2012	0	113 98	24 10	2,489 2,986	17 5	2,531 3,001				57,750 53,660			
2012	0	122	23	2,960	5	2 092				53,544 57,167 56,422 57,889 54,771			
2013 2014 2015	0	134	23 13 12	2,064 2,500 2,226		2,092 2,523 2,244				57 167			
2015	ŏ	134 118	12	2,226	10 6	2,244				56,422			
2016	0	116	14	2,164 1,823	7	2.185				57,889			
2017	0	111	11	1,823	4	1,837				54,771			
2018	0	133 123	18	2,274	16	2,308				59 689			
2019	0	123 120	7	2,278 2,214	10	2,296 2,228				59,331 58,220			
2020 2021	0	120	10 14	2,214 2,022	4 9	2,228 2,045				58,220 58,685			
2022	0	134	15	1,954	8	1,977				61,140			
LULL		104	10	1,004		1,077	Trillion Btu			01,140			
												P. a. =	P 0
1960	5.6	57.8	0.8 1.2 1.5 1.7	7.8 10.6	3.6	12.2	34.4	NA	NA	15.2 23.7 42.6 56.2	125.2	R 30.7 R 46.5 R 87.2	<sup>n</sup> 155.9
1905	2.7 1.7	69.9 90.1	1.2	14.3	2.6	14.4 16.4	23.5	NA NA	NA NA	23.7	134.1 165.3	H 46.5	1180.7 R 252.5
1965 1970 1975	0.4	89.5	1.5	13.3	2.6 0.7 0.2	15.3	14.6 15.2	NA	NA	56.2	176.5	R 114 6	R 291 1
1020	0.1	93.1	3.4	12.2	0.5	16.1	20.7	NA	NA	68.4	198.3	R 145.4	R 343.7
1985 1990 1995 2000	0.2	86.4	2.3	12.2 13.5	0.5 1.5	17.3	25.9	NA	NA	80.2 102.1 122.2	210.0	R 163.0	R 373.0
1990	0.1	92.7	1.7	11.6	0.6	14.0	11.0	(s) (s)	0.1	102.1	220.0 272.2	R 200.2	R 420.2
1995	0.2	117.6	1.0	13.7	0.7	15.4	16.6	(s)	0.2	122.2	272.2	H 260.7	H 532.8
2000	(s)	143.4	0.4	16.0	1.1	17.5	13.5	0.1	0.2	152.0 180.2	326.7	n 323.1	R 649.8
2005	0.1 0.0	128.9	0.2 0.2 0.2 0.2 0.2	10.9 9.8	0.4 0.4	11.5	6.5 5.8 6.4 7.1	0.1 0.1	0.2 0.2 0.2	180.2	327.7	11 374.0 R 207 4	11 /01./ B 702 4
2006 2007 2008	(s)	113.5 115.1 122.2	0.2	10.0	0.4	10.4 10.3	5.0 6.4	0.1	0.2	100.0	316.1 324.1 330.8	R 404 4	R 703.4
2007	0.0	122.2	0.2	11.1	0.1	11.4	7.1	0.2	0.2	189.7	330.8	R 398 7	R 729.5
2009	0.0	121.4	0.2	10.8	0.2	11.2	12.2	0.3	0.3	188.2	333 4	R 381.2	R 714.7
2009 2010	0.0	141.7	0.1	12.7	0.2 0.2	11.2 13.0	12.2 13.0	0.3	0.3	210.0	378.1 R 335.3	R 428.8	R 806.9
2011	0.0	115.4	0.1	9.6	0.1	9.8	12 7	0.3	0.3 0.3	197.0	R 335.3	R 396.7	R 732.0
2012	0.0	115.4 99.1 123.5	0.1	11.5	(s)	11.6	10.6 13.8	0.3	0.3	186.0 191.8 189.7 188.2 210.0 197.0 183.1 182.7	304.9	H 354.4	R 155.9 R 180.7 R 252.5 R 291.1 R 343.7 R 373.0 R 420.2 R 532.8 R 649.8 R 701.7 R 703.4 R 728.5 R 729.5 R 714.7 R 806.9 R 659.2 R 670.7 R 720.3 R 683.3 R 683.3
2013	0.0	123.5	0.1	7.9	(s)	8.1	13.8	0.3	0.3 R 0.3	182.7	328.6	H 342.1	H 670.7
2014 2015	0.0 0.0	136.7	0.1 0.1	9.6 8.6	0.1	9.7	14.0	0.3 0.3	R 0.3	195.1 192.5 197.5 186.9	356.0 326.0	'' 3/0.4 B 257.2	726.3 B coc.o
2015	0.0	120.8 119.2	0.1	8.3	(s) (s)	8.7 8.4	3.5 R 3.4	0.3	0.3	192.5 107 F	3∠0.U 320.1	R 262 0	R 603.3
2016	0.0	114.4	0.1	7.0	(S)	7.1	2.5	0.3	0.4 R 0.4	186.9	329.1 R 311.4	R 336.5	R 647 9
2018	0.0	136.7	0.1	8.7	0.1	8.9	Rai	0.3	R04	203.7	353.3	R 361.3	R 714.6
2018 2019	0.0	126.4	(s)	8.7	0.1	8.9 8.9	R 2.9	0.3	Rn4	202.4	353.3 R 341.2	R 352.2	R 693.5
2020 2021	0.0	123.1 130.1	0.1	8.5	(s) (s)	8.6	R 2.2	0.3	R <sub>0.4</sub>	198.6	R 333.1 R 341.1	R 323.8	R 657.0
2021	0.0	130.1	0.1	8.5 7.8 7.5	(s)	8.6 7.9 7.6	R 2.9 R 2.2 R 2.1 2.2	0.3	R 0.4 R 0.5 0.7	203.7 202.4 198.6 200.2 208.6	H 341.1	R 114.6 R 145.4 R 163.0 R 200.2 R 280.7 R 323.1 R 374.0 R 387.4 R 404.4 R 398.7 R 381.2 R 428.8 R 396.7 R 354.4 R 342.1 R 37.3 R 363.9 R 361.3 R 363.9 R 361.3 R 363.9 R 323.8 R 330.6	R 71.6 R 693.5 R 657.0 R 671.7 697.2
2022	0.0	138.2	0.1	7.5	(s)	7.6	22	0.3	0.7	208 6	357.6	220 €	607.2

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Georgia

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	157 83	21 26	373	649	206	269 306	59 83	1,554 2,021	NA			NA	2,765			
1965 1970	83 56	26 39	603 713	880 1,186	149 39	306 349	83 108	2,021 2,396	NA NA			NA NA	4,560 8,174			
1975	36	49	851	1,100	11	372	80	2,424	NA NA			NA NA	11,226			
1980	17	49 59 52	315 1.726	1,012	12	363 310	10	1,712	NA NA			NA NA	11,965			
1985 1990	30 18	49 57	1,726	1,125 968	46 64	519	468 68	3,674 3,129	0 0			0	17,009 23,715			
1995	52	57	1,453	1,139	35	62	11	2,700	0			0	28,793			
2000 2005	8 45	59 53	1,238 844	1,330 848	41 25	223 69	5 0	2,836 1,785	0			0	38,443 44,663			
2006	0	48	813	844	7	71	ŏ	1,736	Õ			Ö	45,547			
2007 2008	2 12	49 52 54	835 755	845 982	13 8	72 72	0	1,766 1,816	0			(s)	46,997 46,876			
2009	7	54	932	780	6	72	0	1,790	ŏ			i	46,080			
2010 2011	7	60 57	1,072 1,087	955 830	24 21	71 71	32 0	2,155 2,009	0			9 21	47,897 46,930			
2012	7	57 52 57	1,488	716	5	70	0	2,280	0			39	45,937			
2013	5	57	1,550	800	10	73 70	0	2,432	0			91	45,353			
2014 2015	2	59 54	1,593 1,636	888 815	9 6	2,339	0	2,561 4.796	0			96 95	46,608 47,151			
2016	ō	54 51	1,750	768	22	2,404	1	4,945	Õ			31	47,762			
2017 2018	0	49 57 54	1,538 1,406	897 1,057	3 6	2,437 2,468	0	4,876 4,936	0			33 37	46,265 47,312			
2019	ő	54	1,084	954	6	2,496	ő	4,540	ő			45	47,412			
2020 2021	0	50	1,078	1,092	6 8	2,507	0	4,684	0			51	44,302			
2021	0	53 55	1,287 1,303	1,166 1,302	8	2,523 2,588	0	4,984 5,201	0			63 65	45,777 49,541			
								Tri	llion Btu							
1960 1965	3.9 2.0	22.1 27.1	2.2 3.5	2.5 3.4	1.2	1.4	0.4 0.5	7.6	NA	0.7 0.4	NA	NA	9.4	43.7 55.0	R 19.0	R 62.7 R 85.6
1965 1970	2.0 1.3	27.1 39.9	3.5 4.2	3.4 4.6	0.8 0.2	1.6 1.8	0.5 0.7	9.9 11.4	NA NA	0.4 0.3	NA NA	NA NA	15.6 27.9	55.0 80.9	R 30.6 R 57.1	R 138.0
1975	0.8	50.8	5.0	4.3	0.1	2.0	0.5	11.7	NA	0.3 0.5	NA	NA	38.3	101.9	H 78.2	R 180.1 R 197.0
1980	0.4 0.7	60.6 53.0	1.8 10.1	3.9 4.3	0.1 0.3	1.9 1.6	0.1	7.8 19.2	NA NA	0.5 0.6	NA NA	NA NA	40.8 58.0	110.2 131.5	R 86.8 R 117.9	H 197.0 H 249.5
1985 1990	0.7	50.8	8.8	3.7	0.3	2.7	2.9 0.4	16.0	0.0	1.2	(s)	0.0	80.9	149.4	R 158 6	H 308 U
1995	1.3	58.0	8.5	4.4	0.2	0.3	0.1	13.4	0.0	2.3	(s)	0.0	98.2	173.2	R 209.6 R 278.8	R 382.8 R 486.0
2000 2005	0.2 1.1	59.9 54.8	7.2 4.9	5.1 3.3	0.2 0.1	1.2 0.4	(s) 0.0	13.7 8.7	0.0 0.0	2.3 1.0	(s)	0.0 0.0	131.2 152.4	207.2 218.0	R 316.2	R 534 2
2006	0.0	49.6	4.7	3.2	(s) 0.1	0.4	0.0	8.4	0.0	1.0	(s)	0.0	155.4	214.3	H 323 6	R 537.9
2007 2008	(s) 0.3	50.0 52.7	4.8 4.4	3.2 3.8	0.1	0.4 0.4	0.0 0.0	8.5 8.5	0.0 0.0	1.0 1.1	(s)	(s) (s)	160.4 159.9	220.0 222.6	R 338.1 R 336.2	R 558.0 R 558.8
2009	0.2	54.9	5.4	3.0	(s) (s) 0.1	0.4	0.0	8.8	0.0	1.9	(s)	(s)	157.2	223.0	H 318.5	R 541.5
2010	0.2	61.4	6.2	3.7	0.1	0.4	0.2	10.6	0.0	1.9	(s)	R (s) R 0.1	163.4	237.5 R 229.8	R 333.7 R 322.4	R 571.1
2011 2012	0.2 0.2	57.6 52.7	6.3 8.6	3.2 2.8	0.1 (s)	0.4 0.4	0.0 0.0	9.9 11.7	0.0 0.0	1.9 1.7	(S) (S)	R n 1	160.1 156.7	R 223.1	R 303 4	R 552.2 R 526.5
2013	0.2 0.2	58.1	8.9	3.1	0.1	0.4	0.0	12.4	0.0	1.9	(s)	n 0 3	154.7	R 227 5	Rogag	H 517 3
2014 2015	0.1 0.1	60.0 55.0	9.2 9.4	3.4 3.1	0.1 (s)	0.4 11.8	(s) 0.0	13.0 24.4	0.0 0.0	2.0 0.6	(s)	R 0.3 R 0.3	159.0 160.9	R 234.4 R 241.2	R 302.0 R 298.6	R 536.4 R 539.8
2016	0.0	52.8	10.1	2.9	0.1	12.2	(s) 0.0	25.3	0.0	0.6	(s)		163.0	R 241 7	R 300 2	R 542 0
2017 2018	0.0 0.0	50.6 58.1	8.9 8.1	3.4 4.1	(s) (s)	12.3 12.5	0.0 0.0	24.6 24.7	0.0 0.0	0.5 0.5	(s)	R 0.1 R 0.1	157.9 161.4	R 233.6 R 244.8	R 284.2 R 286.4	R 517.8 R 531.2
2019	0.0	55.0	6.2	3.7	(S) (S)	12.6	0.0	22.6	0.0	0.4	(S) (S)	HNO	161.8	R 239.9	R 281.5	R 521.4
2020	0.0	51.8	6.2	4.2	(s)	12.7	0.0	23.1	0.0	0.5	(s)	R 0.2 R 0.2	151.2	R 226.8	R 246.4 R 257.9	R 473.2
2021 2022	0.0 0.0	54.5 56.9	7.4 7.5	4.5 5.0	(s) (s)	12.7 13.1	0.0 0.0	24.7 25.6	0.0 0.0	0.5 0.4	(s) (s)	0.2	156.2 169.0	R 236.1 252.2	7257.9 275.1	R 494.0 527.4
					\-/						ν-7					

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Georgia

					Petrol	leum				Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total <sup>f,k</sup>
1960	548 630	76	2,043 3,538	1,507	936	4,909	3,759	13,153	63				NA	4,713			
1965 1970	630 506	113	3,538	1,716	616	7,117	6,083	19,070	64				NA NA	6,903			
1970	434	141 145	4,014 3,557	2,430 3,478	124 60	8,457 6,243	5,717 6,552	20,741 19,891	58 56				NA NA				
1980	679	155	3,993	3,188	26	5,361	8,331	20,900	54				NA	19,195			
1985	1,575	140	4,079	1,964	1,251 1,288	10,397	7,468 8,757	25,158	54				NA				
1990 1995	2,232 1,949	162 184	4,833 4,990	1,916 2,441	1,288 829	2,002 2,599	8,757 8,492	18,795 19,351	36 41				0				
2000	1,990	166	6,475	3,498	981	1,300	9,057	21,310	22				0	36,085			
2005	1,700	156	6,846	2,345	2,710	3,013	9,796	24,711	20				Ō	34,602			
2006	1,587	160	5,896	2,427	2,808	1,912	10,011	23,055	23				0	34,588			
2007 2008	1,512 1,441	153 151	5,737 4,716	2,083 1,604	1,784 1,654	1,343 749	10,020 8,073	20,966 16,796	19 22				(s)	34,054 32,529			
2009	1,045	140	4,787	1,529	1,605	342	7,206	15,468	8				(s)	29,348			
2010	1,246	147	5,015	1,784	1,306	333	6,836	15,275	22				(s)	31.047			
2011	1,160	145	4,743	1,669	1,301	461	5,543	13,717	19				(s)	31,521 31,225			
2012 2013	853 731	146 158	5,276 5,265	1,613 1,621	1,263 1,365	179 105	4,562 4,755	12,892 13,112	19 23					31,225 31,443			
2014	817	161	5,462	1,915	1,177	199	4,110	12.863	18				i	31,849			
2015	463	158	5,005	1,718	1,236	40	4,246	12,245	21				2				
2016	432	152	5,566	1,645	1,257	176	R 5,555 R 7,367	R 14,200	16				154	32,290			
2017 2018	335 336	150 158	5,392 5,394	1,379 1,781	1,274 1,297	130 172	R 6,624	R 15,542 R 15,267	19 11				180 218				
2019	312	156	4,467	1,654	1,295	153	R 7 345	<sup>rt</sup> 14.914	18	==			244	32,393			
2020	275	153	3,806	1,528	1,308	189	R 6.150	R 12 981	21				251	30,808			
2021 2022	288 261	162 155	5,118	1,555	1,306	157 161	R 6,143 6,399	R 14,279	20				254 212				
2022	201	100	5,173	1,763	1,345	101	6,399	14,841	13				212	34,210			
									Trillion Bt						P	P	D
1960 1965	13.9 15.9	78.6 117.0	11.9 20.6	5.7 6.5	4.9 3.2	30.9 44.7	23.8 38.2	77.2 113.3	R 0.2 R 0.2	36.2 50.3	NA NA	NA NA	NA NA		R 222.2 R 320.3	R 32.4 R 46.3	R 254.7
1965	12.0	145.3	23.4	8.9	0.7	53.2	36.1	122.2	Rna	56.0	NA NA	NA NA	NA NA		H 373 6	R 75.0	R 254.7 R 366.6 R 449.5
1975	10.2	149.4	20.7	12.3	0.3	39.2	41.1	113.7	R <sub>0.2</sub>	62.9	NA	NA	NA	47.3	R 383.6	R 96.6	n 480.2
1980	16.5	160.1	23.3	11.2	0.1	33.7	51.7	120.0	H 0.2	76.9	NA	NA	NA		H 439.2	n 139.3	H 578.6
1985 1990	39.1 56.1	143.9 166.4	23.8 28.2	6.7 6.6	6.6 6.8	65.4 12.6	46.6 55.9	149.0 110.0	R 0.2 R 0.1	90.1 175.5	0.0 0.0	NA 0.0	NA 0.0			R 160.3 R 178.7	R 661.5 R 777.8
1995	49.1	188.5	29.0	8.5	4.3	16.3	53.9	112.1	H 0.1	186.5	0.0	0.0	0.0	107.5	<sup>rt</sup> 643 7	H 229 2	H 872 9
2000	51.0	169.2	37.7	12.0	5.1	8.2	57.3	120.2	R n 1	180.7	0.0	(s)	0.0	123.1	Renz	R 261.7 R 245.0	R 906.0 R 878.5
2005	43.5	161.7	39.8	8.1	14.1	18.9	61.8	142.7	R 0.1 R 0.1	167.5 174.4	(s)	(s)	0.0	118.1	R 633.6	H 245.0	H 878.5
2006 2007	40.7 38.9	164.3 157.1	34.2 33.2	8.3 7.1	14.6 9.2	12.0 8.4	63.3 63.3	132.4 121.2	R n 1	174.4	(s) (s)	(s) (s)	0.0 (s)	118.0 116.2		R 245.8 R 245.0	R 875.7 R 848.8
2008	36.4	154.3	27.3	5.4	8.4	4.7	50.6	96.4	R 0.1 R (s)	139.4	1.4	(s)	(s)	111.0	H 539.0	R 233.3 R 202.9 R 216.3	R 772.2
2009	26.6	143.6	27.7	5.1	8.2	2.2	45.4	88.4	R (s)	133.6	5.5 5.3	(s)	(s)	100.1	497.9	R 202.9	R 772.2 R 700.7
2010	31.8	149.9	29.0	6.9	6.6	2.1	42.9	87.5	R 0.1 R 0.1	155.2	5.3	(s)	(s)	105.9	H 535.5	H 216.3	R 751.7
2011 2012	29.2 21.7	147.6 148.7	27.4 30.4	6.4 6.2	6.6 6.4	2.9 1.1	34.7 28.6	77.9 72.7	R 0.1	162.5 159.4	4.3 3.2	(S)	(S)	107.5 106.5	R 5122	R 216.5 R 206.2	R 745.5 R 718.4
2012	18.6	160.4	30.3	6.2	6.9	0.7	28.8	73.0	R 0.1	179.8	3.0	(s)	(s)	107.3	R 5/2 1	Ranna	R 7/2 0
2014	21.2	163.5	31.5	7.4	6.0	1.3	24.6	70.6	R 0.1	197.3	4.8	(s)	(s)	108.7	H 565.9	R 206.3 R 203.5 R 203.0	R 772.3 R 770.5
2015	12.1	161.6	28.8	6.6	6.3	0.3	25.6	67.6	R 0.1	210.9	5.2	(s)	(s) R 0.5	109.6	H 567.1	H 203.5	H 770.5
2016 2017	11.1 8.4	156.6 154.4	32.0 31.0	6.3 5.3	6.4 6.4	1.1 0.8	34.4 R 46.3	80.2 R 89.9	0.1 R 0.1	194.3 181.9	6.0 5.7	(S)	R 0.5	110.2 110.0		R 102 1	R 761.9 R 748.9
2017	8.4	162.8	31.1	6.8	6.6	1.1	R 41 5	R 87.0	R (s)	183.6	5.4	(s)	R 0.7	111.6	R 559.4	R 198.1 R 197.9	R 757.4
2019	7.8	160.1	25.7	6.4	6.5	1.0	H 46 3	Rgsg	R 0.1	189.5	6.2	(s)	R 0.8	110.5	H 560 9	H 192 3	R 753.2
2020	6.9 7.3	157.5	21.9	5.9	6.6	1.2 1.0	R 38.5 R 38.6	R 74.1	R 0.1	181.5	2.6	(s)	R 0.9 R 0.9	105.1	R 528.6	R 171.4	R 699.9
2021 2022	7.3 6.5	166.4 159.2	29.5 29.8	6.0 6.8	6.6 6.8	1.0	7 38.6 40.1	R 81.7 84.4	R 0.1 (s)	181.6 181.3	(s) (s)	(s)	0.9			R 184.6 190.0	R 734.1 738.9
	5.5	100.2	25.0	5.0	3.0	1.0	70.1	U-1T	(3)	101.0	(9)	(3)	0.7	110.7	J-10.0	130.0	, 55.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Georgia

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			·	Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	9	4	262	2.592	66	2.306	530	30.875	1,544	38.175	43			
1965	2	5	262 928	2,592 4,177	69	2,306 2,158	530 583 549	30,875 38,215	1,162 172	38,175 47,292 73,283	43 0			
1970 1975	(s)	1	600 399	7,747 10,331	100 106	10,506 12,887	549 516	53,608 65,110	172 427	89 776	0			
1980	0	7	399 386	14,135	106 76	12,887 16,421	516 618	65,116	2,995	99,747	16			
1985 1990	0	5 7	212 196	18,205 22,069	212 105	16,236 18,439	562 632	71,432 81,341	1,009 1,307	107,868 124,089	61 75			
1995	0	8	156	27,300	140	18,451	603	96,781	1.383	144 815	94			
2000	0	6	106 223	33,804	118	13,046	644 544	109,916	823 4,451 7,968	158,456 177,336 174,113	96			
2005 2006	0	7	184	42,750 41,060	278 258	9,576 6,552	544 530	119,515 117,561	4,451 7,968	177,336	174 179		 	
2007	ŏ	6	162	38.876	210	6.726	530 547	119.213	5.653	171.387	179			
2008 2009	0	7 8	101 94	32,816 31,256	385 262	6,334 18,023	508 457	113,742 115,833	7,086 6,702	160,971 172,627	182 179	 		
2010	0	9	143	33.147	32	25.061	915	115.102	8.509	182.908	173			
2011	0	12	121	31,814	65 69	24,834	869 748	110,244	10,680	178,626	171 157			
2012 2013	0	12 9	149 116	28,842 31,350	69 97	23,812 24,449	/48 807	109,336 113,481	6,213	169,169 174,581	15/ 156			
2014	ŏ	8	139	32,050	101	24,704	793	109,239	4,281 1,905 1,517	168,933 177,427	156 165 171			
2015 2016	0	9	116 119	34,843	139 167	25,907 26,122	905 B 700	114,000 110,522	1,517	177,427 B 170,667	171 171			
2016	0	8 9	119	31,756 36,567	70	26,122 26,125	905 R 799 R 797	110,522	933	R 180.449	169			
2018	Õ	17	136	31,075	84	25,778	H 702	115,835 115,572	1,181 933 1,544 657	R 180,449 R 174,891 R 175,049	170			
2019	0	7	147 126	33,084	109 94	26,993 14,664	R 680 R 640	113,379	657 173	n 175,049 R 154 616	164 141			
2020 2021	ő	8	142	33,984 R 33,292	134	17,436	R 640 R 653	104,935 107,972	1,089	R 154,616 R 160,943	143			
2022	0	13	147	31,933	195	23,465	668	105,083	1,116	162,788	144			
								llion Btu						
1960	0.2	3.7	1.3 4.7	15.1	0.3	12.4	3.2 3.5 3.3 3.1	162.2 200.7	9.7	204.2	0.1	208.2	R <sub>0.3</sub>	R 208.5
1965 1970	0.1	5.0 7.1	4.7 3.0	24.3 45.1	0.3 0.4	11.6 59.0	3.5 3.3	200.7 281.6	7.3 1.1	252.5 393.5	0.0 0.0	257.5 400.6	0.0 0.0	257.5 400.6
1975	(s) (s)	4.3	2.0	60.2	0.4	72.6	3.1	342.0	2.7	483.0	0.0	487.3	0.0	400.6 487.3
1980 1985	0.0 0.0	7.6	1.9 1.1	82.3 106.0	0.3 0.8	92.6 91.5	3.7 3.4	342.1 375.2	18.8 6.3	541.8 584.4	0.1 0.2	549.4 590.2	0.1 R 0.4	549.6 590.6
1990	0.0	5.5 7.5 8.0	1.0	128.6	0.8	104.2	3.8 3.7	427.3	8.2	673.5	0.3	682.0	0.5 0.7	682.5
1995	0.0	8.0	0.8	158.9	0.5	104.6	3.7	503.6	8.7	780.8	0.3	789.2	0.7	H 789.8
2000 2005	0.0 0.0	6.2 6.9	0.5 1.1	196.7 248.7	0.5 1.1	74.0 54.3	3.9 3.3	571.7 620.5	5.2 28.0	852.4 957.0	0.3 0.6	858.9 964.5	0.7 R 1.2	R 859.6 _ 965.8
2006	0.0	7.3	0.9	238.3	1.0	37.1	3.2	609.6	50.1	940.2	0.6	948.3	1.3	H 949 5
2007 2008	0.0 0.0	6.4 7.2	0.8 0.5	224.9 189.7	0.8 1.5	38.1 35.9	3.3 3.1	613.0 580.8	35.5 44.6	916.5 856.0	0.6 0.6	923.7 864.0	1.3	R 925.0 R 865.3
2009	0.0	8.0	0.5	180.6	1.0	102.2	2.8	589.6	42.1	918.7	0.6	927.3	1.3 R 1.2 1.2	928.6
2010	0.0	9.6	0.7	191.4	0.1	142.1	2.8 5.6	583.2	53.5	976.6	0.6	986.8	1.2	928.6 988.0
2011 2012	0.0 0.0	11.7 11.8	0.6 0.8	183.6 166.3	0.3 0.3	140.8 135.0	5.3 4.5 4.9	558.2 553.5	67.1 39.1	955.8 899.4	0.6 0.5	968.1 911.7	1.2 R 1.0	969.3 912.8
2013	0.0	9.1	0.6	180.7	0.4	138.6	4.9	574.2	26.9	926.3	0.5	935.9	1.0	Rasea
2014	0.0	8.2	0.7	184.7 200.8	0.4	140.1 146.9	4.8 5.5	552.6 576.5	12.0	895.3 940.3	0.6 0.6	904.1	1.1	R 905.1
2015 2016	0.0 0.0	9.2 8.1	0.6 0.6	182.8	0.5 0.6	148.1	4.8 4.8	558.7	9.5 7.4	903.1	0.6	950.1 911.8	1.1 1.1 R 1.0	951.2 _ 912.9
2017	0.0	9.1	0.6	210.5	0.3	148.1	4.8	585.3	5.9	903.1 955.5	0.6	965.2	R 1.0	912.9 R 966.2
2018 2019	0.0 0.0	17.7 7.7	0.7 0.7	179.0 190.5	0.3 0.4	146.2 153.1	4.3 4.1	584.1 572.8	9.7 4.1	924.2 925.8	0.6 0.6	942.5 934.0	R 1.0	R 943.5 935.0
2020	0.0	7.7	0.6	195.6	0.4	83.1	_ 3.9	530.1	1.1	925.8 R 814.9	0.5	823.0	1.0 R 0.8	H 823.8
2021 2022	0.0 0.0	8.1 12.9	0.7 0.7	R 191.9 184.1	0.5 0.7	98.9 133.0	3.9 R 4.0 4.0	545.3 530.6	6.8 7.0	R 849.3 861.2	0.5 0.5 0.5	R 857.8 874.6	R 0.8 0.8	R 858.7 875.4
2022	0.0	12.9	0.7	104.1	0.7	133.0	4.0	0.00.0	7.0	001.2	0.5	0/4.0	0.0	6/0.4

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Georgia

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	2,608	25	1	0	39	40	0	2,243		0	NA	NA	0	
1965 1970 1975	5,291 7,498	1	2	Ö	39 52	54	0	3 170		Ō	NA	NA	Ō	
1970	7,498	59	58	0	1,542 4,059 670	1,600 5,136	0	2,461 4,278		0	NA	NA	0	
1975	12,656	40	1,077	0	4,059	5,136	3,093	4,278		0	NA	NA	0	
1980 1985	21,191	4	415	0	670 57	1,085 292	8,436 10,130	4,369 2,772		0	NA	NA	0	
1985	28,285	1	235	0		292	10,130	2,772		0	0	0	0	
1990 1995 2000 2005	27,812 29,280	2 11	218	0	115 109	333 495	24,797	4,553 4,156		0	0	0	0	
2000	29,200	11	386 1,009 287	0	583	1 501	30,661 32,473 31,534	2 /50		0	0	0	0	
2005	33,150 39,137	72	287	0	583 184	470	31 534	2,459 4,012		0	0	0	0	
2006	38.890	42 72 95 122 96	136	0	56	1,591 470 192	32.006	2.546		ő	0	ő	0	
2006 2007	38,890 40,803	122	136 159	ŏ	34	193	32,006 32,545	2,546 2,217		ŏ	ŏ	ŏ	ŏ	
2008	39.296	96	164	0	7	172	31.691	2.123		Ō	0	0	0	
2009 2010	32,785 34,269	142 175 196	190 200 162 129 130 343 239	0	4	194 212	31,683 33,512	3,252 3,299		0	0	0	0	
2010	34,269	175	200	0	12	212	33,512	3,299		0	0	0	0	
2011	28 894	196	162	0	13	174	32 306	2,686		0	Ō	0	Q	
2012 2013	20,836 20,633 22,660	308 280 290	129	0	0	129 130 354 246	33,942 32,903 32,570	2,218 3,690		0		0	0	
2013	20,633	280	130	0	.0	130	32,903	3,690		0	11	0	0	
2014	22,660	290	343	0	11 8	354	32,570 33,838	3,046		0	116	0	0	
2015 2016	19,307 19,272 16,770	356 379 370	239	0	8	181	33,838	2,962 3,357 2,391		0	126 878	0	0	
2016	19,272	379	191	0	0	191	34,481 33,709	2,337		0	1,984	0	0	
2017	16,770	374	131	0	0	131	34,363	3 686		0	1,304	0	0	
2018 2019	16,953 13,552	374 427	434 150	0	0	434 150	34,363 33,591	3,686 3,938		0	1,994 2,158	0	0	
2020	7.340	427	103	0	Ö	103	32.826	4 642		0	3.777	Ö	Õ	
2021 2022	9,930	404 433	148	0	0	148 377	33,952	3,641		0	4,866 6,945	0	0	
2022	7,340 9,930 8,858	433	103 148 377	0	0	377	33,952 34,074	3,641 3,164		0	6,945	0	0	
							Trillion Btu							
1960 1965 1970	65.3 131.9 178.1 300.6	26.2 0.9 60.5 41.5 3.8 0.9	(s) (s) 0.3 6.3 2.4 1.4	0.0	0.2 0.3 9.7	0.3	0.0	R 7.7	0.0	0.0	NA	NA	0.0	R 99.4 R 143.9 R 257.0 R 422.5
1965	131.9	0.9	(s)	0.0	0.3	0.3	0.0	<sup>n</sup> 10.8	0.0	0.0	NA	NA	0.0 0.0	n 143.9
1970 1975	1/8.1	60.5	0.3	0.0 0.0	9.7	10.0	0.0 34.1	R 10.8 R 8.4 R 14.6	0.0 0.0	0.0	NA NA	NA NA	0.0	11 257.0 B 400.5
1975	300.6 E04.E	41.5	0.3	0.0	25.5 4.2 0.4	31.8	92.0	" 14.0 B 14.0	0.0	0.0 0.0	NA NA	NA NA	0.0	H 621.0
1980 1985	504.5 685.7	3.0 0.0	1.4	0.0	0.4	6.6 1.7	107.6	R 14.9 R 9.5 R 15.5 R 14.2 R 8.4	0.0	0.0	0.0	NA 0.0	0.0 0.0	R 621.8 R 805.3
1990	657.4	20	1.7	0.0	0.7	2.0	262.4	R 15.5	0.0	0.0	0.0	0.0	0.0	R 939 3
1995	673.2	11.4	2.2	0.0	0.7	2.9	322.2	R 14.2	0.2	0.0	0.0	0.0	0.0	R 1.024.1
1990 1995 2000	657.4 673.2 768.3	11.4 42.7	1.3 2.2 5.9 1.7 0.8 0.9 1.0	0.0	0.7 0.7 3.7	2.0 2.9 9.5	338.7	R 8.4	0.1	0.0	0.0	0.0 0.0	0.0	R 1,167.7
2005 2006	856.3 852.0 895.8 849.1 696.7 736.0	75.6 99.2 126.6	1.7	0.0	1.2 0.4	2.8 1.1	329.1	R 13.7 R 8.7 R 7.6 R 7.2	0.2 0.2	0.0	0.0	0.0 0.0	0.0 0.0 0.0	R 1,277.7
2006	852.0	99.2	0.8	0.0	0.4	1.1	334.0	H 8.7	0.2	0.0	0.0	0.0	0.0	R 1,295.2
2007	895.8	126.6	0.9	0.0	0.2	1.1	341.4	H 7.6	0.2	0.0	0.0	0.0	0.0	H 1,372.7
2008	849.1	99.7	1.0	0.0	(s) (s) 0.1	1.0	331.2	H 7.2	0.4	0.0	0.0	0.0 0.0 0.0	0.0	H 1,288.7
2009 2010	696.7	147.5 179.1	1.1 1.2	0.0	(s)	1.1	331.4 350.3	n 11.1	0.4 3.4	0.0	0.0 0.0	0.0	0.0 0.0	<sup>n</sup> 1,188.1
2010	/36.0	1/9.1	1.2	0.0	0.1	1.2	350.3 338.1	R 11.1 R 11.3 R 9.2 R 7.6 R 12.6	3.4	0.0	0.0	0.0	0.0	R 905.3 R 1,024.1 R 1,167.7 R 1,277.7 R 1,295.2 R 1,372.7 R 1,188.1 R 1,280.9 R 1,156.0 R 1,093.5 R 1,055.8 R 1,107.0
2011 2012	605.3 413.7 407.4	199.9 312.7 284.2	0.9 0.7 0.7	0.0	0.1 0.0	1.0 0.7	338.1 255.7	H 7.2	2.9 3.6 7.3	0.0	0.0	0.0 0.0	0.0	11,156.0 B 1,000.5
2012	413.7 407.4	28/12	0.7	0.0 0.0	0.0	0.7	355.7 343.8	R 126	3.0 7.3	0.0 0.0	R (s) R (s) R 0.4	0.0	0.0 0.0	R 1,093.5
2014	461.4	204.2 297 N	2.0	0.0	0.0	2.0	340.7		7.3 8.8	0.0	R (3)	0.0	0.0	R 1,120.4 R 1,123.9 R 1,164.8 R 1,1099.6 R 1,108.6 R 1,090.2 R 1,022.9 1,038.2
2014 2015	382.5	297.0 366.5	1.4	0.0	(s)	1.4	353.9	R 10.1	9.4	0.0	R 0.4	0.0 0.0	0.0	R 1.123.9
2016	461.4 382.5 388.2	391.3	2.0 1.4 1.0	0.0	0.0	1.0	360.6	R 10.1 R 11.5 R 8.2 R 12.6	8.8 9.4 9.6	0.0	R 0.4 R 3.0 R 6.8 R 6.8	0.0	0.0 0.0 0.0	R 1.164.8
2017	335.9	381.8	1.1	0.0	0.0	1.1	352.6 359.3	R 8.2	13.5	0.0	R 6.8	0.0	0.0	R 1,099.6
2017 2018	335.9 331.7	381.8 384.4	1.1 2.5	0.0 0.0	0.0 0.0	2.5	359.3	R 12.6	11.6	0.0	R 6.8	0.0 0.0	0.0 0.0	R 1,108.6
2019	265.3	438 1	0.9	0.0	0.0	0.9	350.8	R 13.4 R 15.8 R 12.4 10.8	147	0.0	R 7.4 R 12.9 R 16.6 23.7	0.0	0.0	R 1,090.2
2020 2021 2022	146.3 196.6 174.4	439.6 415.2 445.6	0.6 0.9 2.2	0.0	0.0	0.6 0.9 2.2	342.9 R 354.1 355.4	H 15.8	23.5 27.3	0.0	H 12.9	0.0 0.0 0.0	0.0	□ H 981.4
	196.6	415.2	0.9	0.0	0.0 0.0	0.9	H 354.1	H 12.4	27.3 26.4	0.0	<sup>H</sup> 16.6	0.0	0.0 0.0	H 1,022.9
2021	100.0			0.0						0.0				

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Hawaii

						Petroleum								
						renoleum				_	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthour	s	Thousan	d barrels
1000			200	440	4.004	0.400	4.700	0.004	10.011		07			
1960 1965	0	0	886 1.612	112 219	4,321 7.618	3,429 4.082	4,766 7.230	3,331 1,717	16,844 22,478	0	27 105	0 0	NA NA	NA NA
1965 1970	Ö	Ō	1,612 1,695	219 938	7,618 14,273	4,082 5,691	7,230 10,154	1,354	22,478 34,105	Ö	105 108	0	NA	NA
1971 1972	0	0	1,709 1,776	963 945	16,302 16,244	5,872 6,202	10,701 11,338	1,186 1,248	36,734 37,753	0	89 91	0 0	NA NA	NA NA
1973	0	0	1 837	942	16.511	6.608	11 575	1.354	38 826	0	95	0	NA	NA
1974 1975	0	0	1,951 1,948	966 872	14,887	6,543	11,122 11,255	1,270	36,739 37,097	0	92	0	NA	NA
1975 1976	0	0	1,948 2,337	8/2 1.036	14,849 14,202	6,766 7,029	11,255 11,871	1,408 1,570	37,097 38,047	0	89 93	0	NA NA	NA NA
1977	ő	Ō	2,865	1,036 877	14,875	7.406	11,871 12,695	1,608	38,047 40,326	Ö	86	Ö	NA	NA
1978	0	0	3.567	702 1,583	14,861	7,639 7,506	12,556 12,167	1,620	40,945 44,660	0	84	0	NA	NA
1979 1980	0	0	6,567 5,987	1,583 1,573	15,276 14,116	7,506 7,231	12,167 13,196	1,560 1,459	44,660 43,562	0	90 86	0	NA NA	NA NA
1981 1982	ŏ	3	6,021 4,545 2,326 2,735	1,337	10,028	7,185	13,160	1,080	38,811	Ö	80	ŏ	4	NA
1982	47	3	4,545	2.104	7.472	7,261	13,292	1,032	35.706	0	90	0	1	NA
1983 1984	42 38	3 2	2,326 2,735	2,102 121	11,271 12,946	7,240 7,528	12,148 12,796	1,204 1,172	36,291 37,297	0	84 82	0	0	NA NA
1985 1986	46	2	4,526 4,627	133 126	13.260	7,594 7,878	13.185	1,308	40,006 39,044	ŏ	86 78	ŏ	ŏ	NA
1986	16	2	4,627	126	10,176	7,878	14,326	1,910	39,044	0	78	0	0	NA
1987 1988	63 50	3	3,685 5,631	157 178	11,481 11,972	8,186 8,476	13,595 16,935	2,287 2,709	39,389 45,902	0	82 81	0	0	NA NA
1988 1989	63 50 32 29 45	3	5.745	186	13.239	8.754	16,935 17,355	2,742	48.021	Ö	56	33	ŏ	NA NA
1990	29	3	6,489	178 214	12,646	8,670	19,067 15,599	2,965	50,015 45,758	0	80	33 29 36	0	NA
1991 1992	45 303	3	7,210 6,219	214 651	11,123	8,970 8,870	15,599 17,856	2,641 3,067	45,758 46,655	0	71 61	36 23	0	NA NA
1993	303 691	3	6,219 5,929	651 884	9,993 8,891	9,060	17,856 13,845	3,067 2,782	46,655 41,392	ŏ	56	23 22	ŏ	NA
1994	704	3	6,321	1.619	9,472	9.343	15.120	2.967	44 843	0	139	20	0	NA
1995 1996	895 930	3 3	5,787 4,950	1,316 1,319	9,940 10,087	9,416 9,374	14,473 12,667	2,909 3,233	43,842 41,631	0	98 104	20 23	0	NA NA
1997 1998	933 822	3	4.640	241 844	10,221 9,999	9,358 9,342	12,218 13,243	3,152 2,613	39,829 40,493	ŏ	115	16	ŏ	NA
1998	822	3 3	4,451	844	9,999	9,342	13,243	2,613	40,493	0	121	19	0	NA NA
1999 2000	801 816	3	5,314 5,094	376 562	9,474 9,438	8,953 9,289	12,945 13,520	2,601 2,688	39,662 40,591	0	115 103	16 17	0	NA NA
2001	829	3	6.040	582	8.895	9.710	13.284	2.969	41.479	Ö	101	2	Ŏ	1
2002	748	3	8,086	770	10,189	10,419	12,738	2,569	44,772	0	95	2	0	2
2003 2004	784 797	3	8,206 8,634	492 462 432	12,708 13,379	10,597 10,741	12,079 13,110	2,779 2,772	46,861 49,098 51,267	0	91 94	2 7	0	2 3 11
2005	740	3	7.307	432	16.372	10,741 10,978	13 210	2.968	51,267	Ö	96	7	344	11
2006 2007	714	3	6,691 9,294	471 419	15,334 12,756	11,533 11,348 10,675	14,687 16,318	2,848 2,770	51,564 52,905	0	120	80 238	392	31 43 37 39 31
2007	764 840	3 3	9,294 5,501	419 674	12,756 10,702	11,348 10,675	16,318 12,421	2,770 2,423	52,905 42,397	0	92 84	238 240	501 930	43 37
2009	791	3	6,053	819	9 303	10,834	12,384	3,080	42,472	ŏ	113	251	1,065	39
2010	803	3 3	6,856	826	13,435	9,993	11,889	3,358	46,356	0	70	261	804	31
2011 2012	783 803	3	6,314 6,099	900 884	13,435 13,932 14,717	11,145 10,586	11,710 10,726	3,365 3,160	47,367 46,173	0	93 115	341 378	933 847	107 74
2013	753	3	5.719	824	15,455	10 746	10,378	3,349 3,108	46,173 46,470 44,785 45,635 R 45,277 R 47,290 R 46,989 R 47,490 R 33,812	Ö	78	503	874	98
2014	831 747	3	4,362 4,730	824 881 747	15,455 15,732 16,270	10,831 11,053	9,871	3,108	44,785	0	94	503 579 613	948	98 116 162
2015 2016	787	3	4,730 4,536	/4/ 799	16,270 16,135	11,053 11,220	9,744 9,679	3,092 R 2,908 R 2,939 R 2,494 R 2,497	45,635 R 45,277	0	121 91	613 639	1,147 1,152	162 229
2017	759	3	4,758	799 995	16,135 17,195	11,220 11,162	10,056	R 2,939	R 47,105	Ö	66	639 532	1,152 1,162	229 277
2018	734 717	3	5,263	965	17.446	10.956	9.866	H 2,494	H 46,989	0	97	602	1.131	262 192 153
2019 2020	/1/ 670	3 2	5,096 4,878	959 876	17,822 9,051	11,022 8,605	10,094 8,523	''18/9	H 47,490	0	95 99	529 592	1,158 913	192 153
2021	634	3	R 4,719	1,088 1,023	13,474	9,757	9,365	H 1,806	'' 40,209	Ö	115	658	1,042 1,053	143 138
2022	380	3	5,072	1,023	15,564	9,838	10,174	1,768	43,439	0	110	625	1,053	138

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Hawaii (trillion Btu)

			Γ		Fossi	l fuels						Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	0.0	0.0	5.2	0.4	23.5	18.0	30.0	17.5	94.5	94.5	0.0	5.2	18.0
1965 1970	0.0 0.0	0.0	9.4 9.9	0.8 3.5	42.3 80.1	21.4 29.9	45.5 63.8	9.9 8.2	129.3 195.4	129.3 195.4	0.0 0.0	9.4 9.9	21.4 29.9
970	0.0	0.0 0.0	10.0	3.6	91.5	30.8	67.3	7.1	210.4	210.4	0.0	9.9 10.0	29.9 30.8
972	0.0	0.0	10.3	3.5	91.3	32.6	71.3	7.6	216.6	216.6	0.0	10.3	32.6
973 974	0.0 0.0	0.0 0.0	10.7 11.4	3.5 3.6	92.9 83.6	34.7 34.4	72.8 69.9	8.2 7.6	222.8 210.6	222.8 210.6	0.0 0.0	10.7 11.4	34.7 34.4
974 975	0.0	0.0	11.4	3.2	83.5	35.5	70.8	7.6 8.6	212.9	212.9	0.0	11.4	34.4 35.5
976	0.0	0.0	13.6	3.8 3.3	79.8	36.9 38.9	74.6	9.5 9.7	218.4	218.4	0.0	13.6	36.9
1977	0.0 0.0	0.0 0.0	16.7 20.8	3.3	83.6	38.9	79.8 78.9	9.7 9.7	232.0	232.0	0.0	16.7	38.9
1978 1979	0.0	0.0	38.3	2.7 5.9	83.6 85.9	40.1 39.4	76.5	9.7	235.8 255.3	235.8 255.3	0.0 0.0	20.8 38.3	40.1 39.4
1980	0.0	0.0	34.9	5.7	79.2	38.0	83.0	8.8	249.5	249.5	3.0	34.9	38.0
1981 1982	0.0	0.0	35.1 26.5	4.8 7.4	56.2 41.6	37.7 38.1	82.7 83.6	6.6	223.1 203.6	223.1 204.7	2.8	35.1 26.5	37.7
1982	1.1 1.0	0.0 0.0	13.6	7.4 7.4	62.5	38.0	76.4	6.3 7.3	205.2	204.7 206.2	2.8 2.7	26.5 13.6	38.1 38.0
1984	0.9	0.0	15.9	0.5	72.6	39.5	80.4	7.1	216.1	217.1	2.4	15.9	39.5
985	1.1	0.0	26.4	0.5 0.5 0.5	74.4	39.9	82.9	8.0	232.1 227.6	233.2	2.4 2.7 2.7	26.4	39.9
986 987	0.4 1.6	0.0 0.2	27.0 21.5	0.5 0.6	57.0 64.4	41.4 43.0	90.1 85.5	11.8 14.0	227.6 228.9	228.0 230.6	2.7	27.0 21.5	41.4 43.0
988	1.2	0.0	32.8	0.7	67.2	44.5	106.5	16.4	268.0	269.3	2.8 2.8	32.8	44.5
989	0.8	0.0	33.5 37.8	0.7 0.7	74.4	46.0	109.1	16.4	280.1 292.8	280.9	2.9 3.0	33.5 37.8	46.0
1990 1991	0.7 1.1	0.0 0.0	37.8 42.0	0.7	71.1 62.6	45.5 47.1	119.9 98.1	17.8 16.0	292.8 266.6	293.5 267.6	3.0	37.8 42.0	45.5 47.1
992	6.8	0.0	36.2	2.5 3.1	56.5	46.6 47.3	112.3	18.5	272.5 239.2	279.2	2.9 2.9 2.8	42.0 36.2 34.5	46.6 47.3
1993	15.6	0.0	34.5	3.1	50.4	47.3	87.0	16.9	239.2	254.8	2.8	34.5	47.3
994 995	15.7 19.9	0.0 0.0	36.8 33.7	5.7 4.6	53.7 56.4	48.7 49.0	95.1 91.0	17.9 17.6	257.9 252.3	273.6 272.2	2.9 2.9	36.8 33.7	48.7 49.0
1996	20.4	0.0	28.8	4.6	57.2	48.8	79.6	19.5	238.6	259.0	2.8	28.8	48.8
1997	20.5	0.0	27.0	0.9	58.0	48.7	76.8	19.1	230.5	251.0	2.7	27.0	48.7
1998 1999	18.2 17.7	0.0 0.0	25.9 30.9	3.2 1.4	56.7 53.7	48.6 46.6	83.3 81.4	15.9 15.9	233.5 229.9	251.7 247.6	2.8 2.9	25.9 30.9	48.6 46.6
2000	17.7	0.0	29.6	21	53.5	48.3	85.0	16.6	235.2	252.9	3.0	29.6	48.3
2001	17.8	0.1	35.1 47.1	2.2 2.9	50.4	50.5	83.5	18.0	239.8	257.7	2.9 2.9	29.6 35.1	50.5
2002 2003	16.6 18.0	0.1 0.1	47.1 47.7	2.9 1.9	57.8 72.1	54.2	80.1 75.9	15.5 16.7	257.4 269.4	274.2 287.6	2.9	47.1 47.7	54.2 55.1
2003	17.9	0.1	50.2	1.7	75.9	55.1 55.8	82.4	16.8	282.9	300.9	2.9 2.9	50.2	55.8
2005	16.5	0.2	42.5	1.7	92.8	55.8	83.0	18.0	293.8	310.5	2.9 2.9	42.5	57.0
1006 1007	16.1 17.1	0.2 0.2	38.8 53.8	1.8 1.6	86.9 72.3	58.4 56.6	92.3 102.6	17.1 16.7	295.5	311.8 320.8	2.9	38.8 53.8	59.8 58.3
2007	18.1	0.1	31.8	2.6	60.7	51.3	78.1	14.6	303.5 239.1	257.3	3.0 2.8	31.8	54.5
2009	17.1	0.2 0.2	34 8	3.1	52.7	51.5	77.9 74.7	19.0 20.7	239.0 262.0 266.0	256.2	2.7 2.7 2.7	35.0 39.6 36.4	55.1
2010 2011	17.1 16.1	0.2 0.2	39.4 36.1	3.2 3.5	76.2 79.0	47.8 53.2	74.7 73.6	20.7 20.7	262.0	279.3 282.3	2.7	39.6 26.4	50.6 56.4
2012	16.6	0.2	34.8	3.4	83.4	50.7	67.4	19.3	259.0	275.8	2.8	35.2	53.6
2013	15.3	0.2	32.3	3.4 3.2	87.6	50.7 51.3	65.2	20.6	259.0 260.3	275.8	2.8 2.9	35.2 33.0	54.4
2014 2015	17.2 15.6	0.2 0.2	24.8 26.9	3.4 2.9	89.2 92.2	51.5 51.9	62.1 61.3	19.2 19.1	250.2 254.2	267.6 _ 270.0	2.8 2.9	25.1 27.3	54.8 55.9
2015 2016	15.6 16.4	0.2	25.5	3.1	92.2 91.5	52.7	60.9	19.1	254.2 252.1	H 268.6	3.0	26.1	56.7
2017	14.9	0.2	26.9	3.8	97.5	52.4	63.2	18.4 R 18.5	252.1 R 262.3	H 277 4	3.0	27.4	56.4
2018 2019	14.4	0.2 0.2	29.7	3.7 3.7	98.9	51.4	62.0 63.5	15.7 _ 15.6	261.5 R 264.4	R 276.1 R 278.8	3.2	30.3 29.3	55.4
2019	14.2 13.3	0.2 0.2	28.9 27.6	3.7 3.4	101.0 51.3	51.7 40.3	63.5 53.6	R 11.8	187.9	R 201.4	3.1 2.3	29.3 28.1	55.7 43.5
2021	12.6	0.1	27.0	4.2	76.4	45.7	58.9	11.3	223.0	235.7	2.6	27.2	49.3
2022	7.7	0.2	29.0	3.9	88.3	46.0	64.0	11.1	241.9	249.7	2.7	29.2	49.7

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Hawaii (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 0.1	0.0	NA	NA	NA	NA	0.0	0.0	NA	NA	R <sub>0.1</sub>	0.0	0.0	R 94.6
1965 1970	0.0 0.0	R 0.4	0.2 0.4	NA NA	NA NA	NA NA	NA NA	0.2 0.4	0.0 0.0	NA NA	NA NA	R 0.5 R 0.8 R 0.7 R 0.9	0.0 0.0	0.0 0.0	R 129.8 R 196.2
1971	0.0	R 0.4 R 0.3	0.3	NA	NA	NA	NA	0.3	0.0	NA	NA	R 0.7	0.0	0.0	H 211 0
1972	0.0 0.0	R 0.3	0.6	NA NA	NA NA	NA NA	NA NA	0.6	0.0 0.0	NA NA	NA NA	H 0.9	0.0 0.0	0.0 0.0	R 217.4 R 223.7
1973 1974	0.0	R 0.3 R 0.3	0.5 0.6	NA NA	NA	NA	NA	0.5 0.6	0.0	NA	NA	R 0.9 R 0.9	0.0	0.0	R 223.7 R 211.5
1975	0.0 0.0	R 0.3 R 0.3	0.6	NA NA	NA NA	NA NA	NA NA	0.6	0.0 0.0	NA NA	NA NA	R 0.9 R 1.0	0.0 0.0	0.0 0.0	R 213.8 R 219.4
1976 1977	0.0	R 0.3 R 0.3	0.7 0.5	NA NA	NA NA	NA NA	NA NA	0.7 0.5	0.0	NA NA	NA NA	Ros	0.0	0.0	H 232 7
1978	0.0	R 0.3	0.3	NA	NA	NA	NA	0.3	0.0	NA	NA	H 0.6	0.0	0.0	R 236.4 R 256.0
1979 1980	0.0 0.0	R 0.3 R 0.3	0.3	NA NA	NA NA	NA NA	NA NA	0.3 11.9	0.0 0.0	NA NA	NA NA	R 0.6	0.0	0.0	R 261 7
1981	0.0	R 0.3	11.9 12.7	(s) (s) 0.0	NA	NA	0.0	12.7	0.0	NA	NA	R 12.2 R 13.0	0.0 0.0	0.0 0.0	R 261.7 R 236.2
1982 1983	0.0 0.0	R 0.3 R 0.3	12.4 14.0	(s)	NA NA	NA NA	0.0 0.0	12.4 14.0	0.0	NA NA	NA 0.0	R 12.7 R 14.3 R 14.7 R 14.6	0.0 0.0	0.0 0.0	R 217.5 R 220.6
1984	0.0	R 0.3	14.3	0.0	NA	NA	0.0	14.3	0.0 R 0.1	0.0 0.0	0.0 0.0	R 14.7	0.0	0.0	H 231.7
1985	0.0 0.0	R 0.3	14.2	0.0 0.0	NA NA	NA NA	0.0 0.0	14.2	R 0.1 R 0.1	0.0 0.0	0.0	H 14.6	0.0 0.0	0.0 0.0	R 247.8
1986 1987	0.0	R 0.3 R 0.3	16.3 17.8	0.0	NA	NA	0.0	16.3 17.8	R (s)	0.0	0.0 0.0	R 16.6 R 18.2	0.0	0.0	R 244.7 R 248.8
1988	0.0	R 0.3 R 0.2	19.4 27.0	0.0	NA	NA	0.0	19.4	R (s) R 0.1 R (s)	0.0	0.0 B 0.1	R 19.8 R 28.2	0.0	0.0	R 289.0
1989 1990	0.0 0.0	R 0.3 R 0.2	27.0 25.9	0.0 0.0	NA NA	NA NA	0.0 0.0	27.0 25.9	(s)	0.8 0.9	R 0.1 R 0.1	R 27.2 R 26.8	0.0 0.0	0.0 0.0	R 289.0 R 309.0 R 320.7 R 294.4
1991	0.0	R 0.2	25.9 25.4	0.0	NA	NA	0.0	25.9 25.4	(s) (s)	1.0	R 0.1	R 26.8	0.0	0.0	R 294.4
1992 1993	0.0 0.0	R 0.2 R 0.2 R 0.5	24.9 24.4	0.0 0.0	NA NA	NA NA	0.0 0.0	24.9 24.4	(s) R 0.5 R 0.6	1.0 1.1	R 0.1 R 0.1	R 26.2 R 26.2	0.0 0.0	0.0 0.0	R 305.4 R 281.1 R 296.6
1994	0.0	R 0.5	20.7	0.0	NA	NA	0.0	20.7	R 0.6	1.1	R 0.1 R 0.1	R 26.2 R 23.0	0.0	0.0	R 296.6
1995 1996	0.0 0.0	R 0.3	19.8 19.1	0.0 0.0	NA NA	NA NA	0.0 0.0	19.8 19.1	R 0.8	1.2 1.2	R 0.1	R 22.2 R 21.5	0.0 0.0	0.0 0.0	R 294.3 R 280.5 R 270.9 R 270.8
1997	0.0	R 0.4 R 0.4	17.4	0.0	NA	NA	0.0	17.4	R 0.8 R 0.8	1.2	R 0.1 R 0.1	R 21.5 R 19.9	0.0	0.0	R 270.9
1998	0.0 0.0	R 0.4 R 0.4	16.5	0.0 0.0	NA NA	NA NA	0.0 0.0	16.5	R 0.8	1.3	R 0.1	R 19.1	0.0	0.0	H 270.8
1999 2000	0.0	R 0.4 R 0.3	17.0 15.2	0.0	NA NA	NA	0.0	17.0 15.2	R 0.7 R 0.9 R 0.7	1.3 1.3	R 0.1 R 0.1	R 19.4 R 17.8 R 10.2 R 9.3	0.0 0.0	0.0 0.0	R 267.0 R 270.7
2001 2002	0.0	R 0.3 R 0.3	7.9 7.5	0.0	(s)	NA	0.0	8.0 7.5	R 0.7 R 0.3	1.2 1.2	(s) (s)	R 10.2	0.0	0.0	R 268.0 R 283.5
2002	0.0 0.0	R 0.3	7.5 9.3	0.0 0.0	(s) (s)	NA NA	0.0 0.0	7.5 9.3	R 0.6	1.2	(S) (S)	R 11.5	0.0	0.0 0.0	R 299.1
2003 2004	0.0	R 0.3 R 0.3	9.3 9.3	0.0	(s)	NA	0.0	9.3 9.4	R 0.6 R 0.7	1.3 1.3	(s) R (s) R (s) R 0.3 R 0.8	R 11.5 R 11.7	0.0 0.0	0.0	R 299.1 R 312.6
2005 2006	0.0 0.0	R 0.3 R 0.4	8.4 8.5	1.2 1.4	0.1	NA NA	0.0 0.0	9.6 10.1	R 0.8 R 0.7	1.3	п (s) В 0.3	R 12.0 R 12.8	0.0 0.0	0.0 0.0	R 322.6 R 324.6
2007	0.0	R 0.3	8.0	1.7	0.2 0.2 0.2	NA	0.0	10.1 9.9	Ros	1.4 1.5 R 1.7	R 0.8	R 13.3 R 15.6	0.0	0.0	H 334 1
2008 2009	0.0 0.0	R 0.3	8.6 8.6	3.2 3.7	0.2 0.2	NA NA	0.0 0.0	12.0 12.5	R 0.8	H 1.7	H 0.8	H 16 1	0.0 0.0	0.0 0.0	R 272.9 R 272.3
2010	0.0	R 0.4 R 0.2	7.7	2.8	0.2	NA	0.0	10.7	R 0.6 R 0.7	B 1.9	R 0.9 R 0.9	n 14 5	0.0	0.0	R 272.3 R 293.8
2011 2012	0.0 0.0	R 0.3	7.4	3.2	0.6	0.0 0.0	0.0 0.0	11.2 10.0	R 0.8 R 0.9 R 0.9	R 1.8 R 1.9 R 2.2 R 2.7 R 3.4	R 1.2 R 1.3 R 1.7	H 15 6	0.0 0.0	0.0 0.0	R 297.8 R 291.1 R 293.9
2012	0.0	R 0.4 R 0.3	6.7 8.2	2.9 3.0	0.4 0.5	0.0	(s)	11.7	R 0.9	R 3.4	R 1.7	R 15.3 R 18.0	0.0	0.0	R 293.9
2014	0.0	Rna	7.7	3.3 4.0	0.6	0.0	(s)	11.6	R 0.9	R 4.0	нэл	H 18 7	0.0	0.0	R 286.3 R 289.7
2015 2016	0.0	R 0.4 R 0.3 R 0.2	7.2 8.2	4.0	0.9 1.2	0.0 0.0	(s) (s)	12.1 13.4	R 0.8 R 0.9	R 4.0 R 4.3 R 4.9 R 5.9 R 6.2 R 6.7	R 2.1 R 2.2 R 1.8	R 19.7 R 21.7	0.0 0.0	0.0 0.0	R 290.3
2017	0.0	R 0.2	8.2 5.4	4.0	1.2 1.5	0.0	(s) (s)	13.4 10.9	H 1.1	R 5.9	R 1.8	R 20.0	0.0	0.0	R 290.3 R 297.4
2018 2019	0.0 0.0	R 0.3 R 0.3	5.4 4.9	3.9 4.0	1.4 1.0	0.0 0.0	(s) (s)	10.7 10.0	R 0.4	R 6.2	R 2.1 R 1.8	R 19.6 R 18.8	0.0 0.0	0.0 0.0	R 295.7 R 297.7 R 220.1 R 256.1
2020	0.0	H 0.3	4.4	3.2	0.8	0.0	(s)	8.4	R (s)	R 7.8 R 8.0	н 2 0	R 18 6	0.0	0.0	R 220.1
2021 2022	0.0 0.0	R 0.4 0.4	4.6 4.6	3.6 3.7	0.8 0.7	0.0 0.0	(s) (s)	9.0 9.0	R 0.6 0.7	H 8.0 8.4	R 2.2 2.1	R 20.4 20.6	0.0 0.0	0.0 0.0	<sup>H</sup> 256.1 270.3
2022	0.0	0.4	4.0	3.7	0.7	0.0	(8)	9.0	0.7	0.4	۷.۱	20.0	0.0	0.0	210.3

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Hawaii

						Petroleum					Bior	nass						
'	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			-	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	0	0		112	4,321	3,429	2,047	3,331	14,088	0					1,285			
1970	0	0		938	14,273	5,691	3,452	1,354	27,307	86					3,776			
1980 1990	0	3		1,573	14,116	7,231	2,957 5,222	1,459 2,965	32,436 34,357	67 57					6,331 8,311			
2000	28 110	3		178 562	12,646 9,438	8,670 9,289	2,672	2,965	26,968	60					9,691			
2005	59	3		432	16,372	10,978	1,905	2,968	37,379	34					10,539			
2006	59	3		471	15,334	11,533	3,188	2,848	37,611	38					10,568			
2007	72	3		419	12,756	11,348	4,893	2,770	39,167	38					10,585			
2008	99	3		674	10,702	10,675	1,412	2,423	29,188	39					10,390			
2009 2010	88 61	3		819 826	9,303 13,435	10,834 9,993	1,680 1,525	3,080 3,358	29,518 33,746	35 42					10,126 10,017			
2010	58	3		900	13,435	11,145	1,456	3,365	34,848	49					9,962			
2012	50	3		884	14,717	10,586	1,233	3.160	34,496	59					9,639			
2013	61	3		824	15,455	10,746	1,163	3,349	35,175	44					9,503			
2014	61	3		881	15,732	10,831	1,105	3,108	33,963	52					9,475			
2015	50	3		747	16,270	11,053	997	3,092	34,755	59					9,511			
2016	12	3		799	16,135	11,220	1,218	R 2,908	R 34,779	38					9,445			
2017 2018	0	3		995 965	17,195 17,446	11,162 10,956	1,662 1,470	R 2,939 R 2,494	R 36,617 R 36,438	37 34					9,324 9,337			
2019	0	3		959	17,440	11,022	1,716	R 2,497	R 36,794	59					9,453			
2020	0	2		876	9,051	8,605	763	R 1,879	R 23,857	70					8,797			
2021	0	3		1,088	13,474	9,757	1,656	R 1,806	R 30,323	72					8,936			
2022	0	3		1,023	15,564	9,838	1,697	1,768	32,578	61					9,039			
									Trillion	Btu								
1960	0.0	0.0	4.9	0.4	23.5	18.0	12.9	17.5	77.2	0.0	0.0	NA	NA	NA	4.4	81.6	R 13.0	R 94.6
1970	0.0	0.0		3.5	80.1	29.9	21.7	8.2	152.7	R 0.3	0.2			NA	12.9	R 166.0	R 30.1	R 196.2
1980	0.0	3.0		5.7	79.2	38.0	18.6	8.8	180.0	R 0.2	11.9			NA	21.6	R 213.7	R 48.0	R 261.7
1990	0.7	3.0		0.7	71.1	45.5	32.8	17.8	195.2	R 0.2	18.2			0.9	28.4	R 243.4	R 77.2	R 320.7
2000	2.1	3.0 2.9		2.1	53.5 92.8	48.3 57.0	16.8	16.6	150.8 208.9	R <sub>0.2</sub> R <sub>0.1</sub>	9.9			1.3	33.1 36.0	R 197.5 R 256.4	R 73.2 R 66.2	R 270.7 R 322.6
2005 2006	1.4 1.6	2.9		1.7 1.8	92.8 86.9	59.8	12.0 20.0	18.0 17.1	208.9	R 0.1	8.4 8.5			1.3 1.4	36.0	R 258.4	R 66.2	R 324.6
2007	1.8	3.0		1.6	72.3	58.3	30.8	16.7	220.1	R 0.1	8.0			1.5	36.1	R 267.9	R 66.2	R 334.1
2008	2.3	2.8		2.6	60.7	54.5	8.9	14.6	160.4	R 0.1	8.6			R 1.7	35.5	R 208.9	R 64.0	R 272.9
2009	2.0	2.7		3.1	52.7	55.1	10.6	19.0	162.5	R 0.1	8.5			R 1.8	34.6	R 209.8	R 62.5	R 272.3
2010	1.4	2.7		3.2	76.2	50.6	9.6	20.7	186.9	R <sub>0.1</sub>	7.7			R 1.9	34.2		R 61.4	R 293.8
2011	1.3	2.7		3.5	79.0	56.4	9.2	20.7	192.1	R 0.2	6.8			R 2.1 R 2.7	34.0	R 236.6	R 61.0	R 297.6
2012 2013	1.1 1.4	2.8 2.9		3.4 3.2	83.4 87.6	53.6 54.4	7.8 7.3	19.3 20.6	190.0 194.1	R 0.2 R 0.2	6.3 7.6			R 3.3	32.9 32.4	R 233.4 R 239.2	<sup>R</sup> 57.6 <sup>R</sup> 54.8	R 291.1 R 294.0
2013	1.4	2.8		3.4	89.2	54.4	6.9	19.2	186.8	R 0.2	7.0		(s) (s)	R 3.8	32.3		R 54.2	R 286.0
2014	1.1	2.9		2.9	92.2	55.9	6.3	19.2	191.3	R 0.2	6.4		(s)	R 4.1	32.5	R 235.8	R 53.5	R 289.2
2016	0.3	3.0		3.1	91.5	56.7	7.7	18.4	191.7	R 0.1	7.1		(s)	R 4.6	32.2	H 236.2	R 53.5	R 289.7
2017	0.0	3.0	15.3	3.8	97.5	56.4	10.4	R 18.5	R 202.0	R 0.1	3.7	(s)	(s)	R 5.3	31.8	R 243.1	R 53.3	R 296.5
2018	0.0	3.2		3.7	98.9	55.4	9.2	15.7	R 200.9	R 0.1	3.9		(s)	R 5.5	31.9	R 242.5	R 52.4	R 294.9
2019	0.0	3.1	16.0	3.7	101.0	55.7	10.8	15.6	R 202.9	R <sub>0.2</sub>	3.6		(s)	R 5.8	32.3	R 245.0	R 52.1	R 297.1
2020	0.0	2.3		3.4	51.3	43.5	4.8	R 11.8	R 130.2 R 166.3	R <sub>0.2</sub> R <sub>0.2</sub>	3.4		(s)	R 6.2 R 6.3	30.0	R 170.2 R 206.7	R 49.6	R 219.7 R 255.9
2021 2022	0.0 0.0	2.6 2.7		4.2 3.9	76.4 88.3	49.3 49.7	10.4 10.7	11.3 11.1	179.1	0.2	3.3 3.3		(s) (s)	6.6	30.5 30.8		R 49.2 50.0	270.3
2022	0.0	2.1	13.5	5.5	00.0	45.7	10.7	11.1	179.1	0.2	3.3	(5)	(5)	0.0	30.6	220.2	30.0	270.3

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Hawaii

				Petro	oleum		Biomass						
-	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total e,h
960	0	0	(s)	25	0	26				514			
965	0	0	`í	25 50	0	51				861			
970 975	0	0	1	198 142	0	200				1,285			
9/5	0	0	1	142 191	0	143				1,663			
980 985	0	1	(s)	45	0	192 45				1,841 1,879			
990	ŏ	i	(s) (s) 2	45 57	ŏ	57				2,324			
995 2000	0	1	ž	38	(s)	40				2.606			
2000	0	1	(s) (s) 3	194	(s)	194				2,765			
2005	0	1	(s)	152 156 125	(s)	152 159 128				3,164 3,182			
2006 2007	0	1	3	125	(S) (S)	109				3,102			
2008	0	(s)	5	262	(s)	267				3 085			
2009	Ö	Ϋ́	3	239 239	(s)	242 239				3,055 2,989			
2010	0	1	(s) (s) (s)	239	(s)	239				2,989			
2011	0	(s) (s)	(s)	222	(s)	222				2,929			
2012 2013	0	(S)	(S) (S)	326 218	(s) (s)	326 218				2,739 2,609			
013	0	1	(5)	220	(s)	210				2,009			
2014 2015	ŏ	i	(s) (s)	220 131	(3)	220 132				2,584 2,641			
2016	0	1	(s) (s) 0	180	0	180				2.612			
2017	0	1	(s)	151	0	151				2,630			
2018	0	1		119	0	119				2,711			
2019 2020	0		0 (s)	129 123	0	129 123				2,760 2,849			
2021	0	i	(s)	154	0	154				2,825			
022	Ö	i	(s) (s)	148	Ö	149				2,748			
							Trillion Btu						
960	0.0	0.0	(s)	0.1	0.0	0.1	0.0	NA	NA	1.8	1.9	R 5.2	_ 7.1
965 970	0.0	0.0	(s)	0.2	0.0	0.2	0.0	NA	NA	2.9	3.1	6.7	_R 9.8
970	0.0	0.0	(s) (s) (s)	0.2 0.8	0.0 0.0	0.8	0.0	NA	NA	2.9 4.4 5.7	5.2	10.3	R 9.8 R 15.4 R 18.9
975	0.0	0.0	(s)	0.5	0.0	0.5	0.0	NA	NA	5.7	6.2	12.7	H 18.9
980 985	0.0 0.0	1.4 0.7	(s) (s)	0.7 0.2	0.0 0.0	0.7 0.2	0.0 0.0	NA NA	NA NA	6.3 6.4	7.0 6.6	14.0	21.0 _ 19.9
990	0.0	0.6	(5)	0.2	0.0	0.2	0.0	0.0	0.9	7.9	9.0	13.3 R 21.6 R 20.5 R 20.9 R 19.9	R 30 6
990 995 2000	0.0	0.6	(s) (s) (s)	0.1	(s)	0.2 0.2 0.7	0.0	0.0	0.9 1.2 1.3	7.9 8.9	10.2	R 20.5	R 30.7
2000	0.0	0.6	(s)	0.7	(s)	0.7	0.0	0.0	1.3	9.4	11.5	R 20.9	R 30.6 R 30.7 R 32.4 R 32.8
2005 2006 2007	0.0	0.5 0.5 0.5	(s) (s) (s)	0.6	(s)	0.6	0.2 0.2 0.2	0.0	1.3	10.8 10.9	12.9	H 19.9	H 32.8
2006	0.0 0.0	0.5	(s)	0.6 0.5	(s)	0.6 0.5	0.2	0.0 0.0	1.3 1.4	10.9	13.0 13.1	R 19.9 R 20.0 R 19.0	R 32.9 R 33.1
2007	0.0	0.5	(S) (S)	1.0	(S)	1.0	0.2	0.0	1.4	10.9 10.5	13.1	R 10.0	R 32 4
2008 2009	0.0	0.5 0.5	(s)	0.9	(s)	0.9	0.3	0.0	17	10.4	R 13.4	H 18 9	R 32.4 R 32.3 R 31.6
2010	0.0	0.5	(s)	0.9	(s)	0.9	0.4	0.0	R1Ω	10.2	R 13.3	H 10 2	R 31.6
2011 2012	0.0	0.5 0.5	(s)	0.9	(s)	0.9 1.3	0.4 0.3	0.0	R 1.9	10.0 9.3	R 13.2	R 17.9	R 31.1 R 29.6
2012	0.0	0.5	(s)	1.3	(s)	1.3	0.3	0.0	R 1.9 R 2.3 R 2.7	9.3	H 13.2	R 17.9 R 16.4 R 15.0	H 29.6
2013 2014	0.0 0.0	0.6 0.6	(s)	0.8	(s)	0.8 0.8	0.4 0.4	0.0 0.0	R 3.0	8.9 8.8	H 13.4 R 13.4 R 13.3 R 13.2 R 13.2 R 13.2 R 13.1 R 12.9	11 15.0 R 14 9	R 27.9 R 27.9
2014	0.0	0.6	(s) (s)	0.8 0.5	(s) 0.0	0.8 0.5	0.4 (s)	0.0	R 3.3	8.8 9.0	R 12 a	R 14.8 R 14.8	H 27 7
2016	0.0	0.6	(s)	0.7	0.0	0.7	(s)	0.0	R36	8.9	R 13.3 R 13.7 R 13.9	R 14.8 R 15.0	R 28.0 R 28.8
2016 2017	0.0	0.6 0.6	(s) (s) 0.0	0.6	0.0 0.0	0.6	(s)	0.0	R 4 1	8.9 9.0	R 13.7	R 15.0	R 28.8
2018	0.0	0.6	0.0	0.5	0.0	0.5	(s)	0.0	R 4.1	9.2	H 13.9	n 15 2	H 29 1
2019	0.0 0.0	0.5	0.0	0.5	0.0	0.5	(s)	0.0	R 4.3 R 4.6 R 4.7	9.4	R 14.3 R 14.8	R 15.2 R 16.0	R 29.5 R 30.9 R 30.5
	U.U	0.6	(S)	0.5	0.0	0.5	(s)	0.0	<u>''</u> 4.6	9.7	<u>''</u> 14.8	<u>''</u> 16.0	<u></u> 30.9
2020 2021	0.0	0.6	(s) (s) (s)	0.6	0.0	0.6	(s)	0.0	H <u>4</u> 7	9.6	R 15.0	R 15.6	H 30 5

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Hawaii

					Pet	roleum				Biomass						
1	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>	W		Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Yea	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat	lion tthours	End use f,j	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	0	0	48	42	23	55 59	41	209	NA			NA	306			
1965 1970	0	0	71 174	83 328	39 87	59 133	31	283	NA NA			NA	495			
1975	0	0	174 84	235	45	98	38 15	760 477	NA NA			NA NA	771 1,109			
1980	Ö	2	398	235 315	0	54 47	25 21	477 792 275	NA			NA	1,462			
1985 1990	0	2 2	132 453	74 93	1 (s)	47 59	21 825	275 1,430	NA 0			NA (s)	1,612 2,253			
1995	Ö	2	343	93 63	(s)	11	62	480	Ö			(s) (s)	2,779			
2000	0	2	218	320	(s)	11	8	558	0			(s)	3,092 3,463	 		
2005 2006	0	2 2	384 392	251 257	(s) (s)	12 12	1	651 662	0			4	3,463 3,490			
2007	Ö	2	282	223	(s)	12 12	(s)	517	Ō			.7	3,520			
2008 2009	0	2 2	221 272	403 540	(s) (s)	12 12	0	636 825	0			15 25	3,501 3,388			
2010	0	2	265 299	531 631	(s)	12	0	808	0			35 59	3,355 3,368			
2011	0	2	299	631	(s)	12 12 12	0	943 833	0			59	3,368			
2012 2013	0	2 2	266 255	554 599	(s) (s)	12 13	0	833 867	0			123 175	3,238 3,271			
2014	Ö	2	255 323	599 652	(s)	13 12	Ö	987	ő			228	3,202			
2015 2016	0	2 2	225	604	0	309 314	0	1,138 1,076	0			243 279	3,174			
2016	0	2	157 205	606 787	0	314	0	1,076	0			360	3,111 3,082			
2018	Ō	3	236	740	Ö	324	Ō	1,301	Ō			406	3,033			
2019 2020	0	3 2	317 226	803 730	0	326 328	0	1,446 1,283	0			435 464	3,058 2,684			
2021 2022	0	2	233 222	897	0	331	Ó	1.460	0			476	2 785			
2022	0	2	222	836	0	341	0	1,399	0			493	2,838			
								Tril	lion Btu							
1960 1965 1970	0.0	0.0	0.3 0.4	0.2 0.3 1.3	0.1	0.3 0.3	0.3 0.2 0.2	1.1	NA	0.0 0.0 0.0	NA	NA	1.0 1.7	2.2 3.1	3.1 R 3.8	5.3 7.0
1965	0.0 0.0	0.0 0.0	1.0	1.3	0.2 0.5	0.3	0.2	1.5 3.7	NA NA	0.0	NA NA	NA NA	2.6	6.3	6.2	7.0 12.5
1975	0.0	0.0	0.5	0.9 1.2	0.3	0.5	0.1	2.3	NA	0.0	NA	NA	3.8	6.0	8.5	14.5
1980 1985	0.0 0.0	1.7 2.0	2.3 0.8	1.2 0.3	0.0 (s)	0.3 0.2	0.2 0.1	4.0 1.4	NA NA	0.0 0.0	NA NA	NA NA	5.0	9.0 6.9	11.1 R 11.4	R 20.0 R 18.3
1990	0.0	2.4	2.6	0.4	(s)	0.3	5.2 0.4	8.5	0.0 0.0	0.0 0.0 0.0	0.0	(s)	5.5 7.7 9.5	16.2	R 20.9	n 37 1
1995	0.0	2.4 2.3	2.0	0.2 1.2	(s)	0.1	0.4	8.5 2.7	0.0	0.0	0.0	(s)	9.5	12.2	R 20.9 R 21.8 R 23.4	R 34.0 R 36.6
2000 2005	0.0 0.0	1.9 1.9	1.3 2.2	1.2	(s) (s)	0.1 0.1	0.1 (s)	2.6 3.3	0.0 0.0	0.0 2.3	(s)	(s)	10.6 11.8	13.2 17.5	H 21 R	11 36.6 R 39 3
2006	0.0	1.9	2.3	1.0	(s)	0.1	(s)	3.3	0.0	26	(s)	_ (s)	11.9	18.0	R 21.9 R 22.0	R 39.3 R 39.9
2007	0.0	1.9	1.6	0.9 1.5 2.1	(s)	0.1	(s) 0.0	2.6	0.0 0.0	2.4 3.1 3.0	(s)	R (s) R 0.1	12.0 11.9	17.1	H 22.0	R 39.1 R 39.6 R 39.4
2008 2009	0.0 0.0	1.8 1.8	1.3 1.6	1.5 2.1	(s) (s)	0.1 0.1	0.0	2.9 3.7	0.0	3.1	(S)	B 0.1	11.6	18.1 R 18.5	R 21.6 R 20.9	R 39.4
2010	0.0	1.8	1.5 1.7	2.0	(s)	0.1	0.0	3.6	0.0	2.9 2.8	(s)	H 0.1	11.4	R 18.3	H 20 6	н 38.8
2011 2012	0.0 0.0	1.9 1.9	1.7 1.5	2.4 2.1	(s)	0.1 0.1	0.0 0.0	4.2 3.7	0.0 0.0	2.8	(s)	R 0.2 R 0.4	11.5 11.0	R 18.8 R 17.5	R 20.6 R 19.4	R 39.4 R 36.9
2013	0.0	1.9	1.5	2.3	(s) (s)	0.1	0.0	3.7	0.0 0.0 0.0	2.2 3.2 3.3 3.2	(S) (S)	n 0 6	11.0	H 18 0	H 19 0	R 37.8 R 37.9
2014	0.0	1.9	1.9	2.3 2.5 2.3	(s)	0.1	0.0	4.4	0.0	3.3	(s)	R 0.8	10.9	R 19.5	H 12 3	R 37.9
2015 2016	0.0 0.0	1.9 2.3	1.3 0.9	2.3 2.3	0.0 0.0	1.6 1.6	0.0 0.0	5.2 4.8	0.0 0.0	3.2 3.7	(s) (s)	R 0.8 R 1.0	10.8 10.6	R 20.2 R 20.2	R 17.8 R 17.6	R 38.0 R 37.9
2017	0.0	2.4	1.2	3.0	0.0	1.6	0.0	5.8	0.0	3.6	(s)	R 1 2	10.5	H 21 2	H 17 6	H 38 9
2018	0.0	2.5	1.4	2.8	0.0	1.6	0.0	5.8	0.0	3.8 3.5 3.3	(s)	R 1.4	10.3	R 21.5 R 22.2	m 17 n	R 38 6
2019 2020	0.0 0.0	2.5 1.6	1.8 1.3	3.1 2.8	0.0 0.0	1.6 1.7	0.0 0.0	6.6 5.8	0.0 0.0	3.5	(s)	R 1.5 R 1.6	10.4 9.2	R 19.9	R 16.8 R 15.1	R 39.0 R 35.0
2021	0.0	1.9	1.3	3.4	0.0	1.7	0.0	6.5	0.0	3.2	(s)	R 1.6 1.7	9.5	R 20.9	H 15.3	н 36.2
2022	0.0	2.1	1.3	3.2	0.0	1.7	0.0	6.2	0.0	3.2	(s)	1.7	9.7	20.9	15.7	36.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Hawaii

					Petro	leum			Unidan	Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline c	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total f,k
1960	0	0	554 635	43 82	83 76	1,038	649	2,367	0				NA	465			
1965	0	0	635	82	76	1,712	992	3,497	83				NA				
1970 1975	0	0	701 603	386 472	49 53	1,671 1,346	1,066 1,174	3,874 3,648	86 71	==			NA NA				
1980	ŏ	ŏ	1,369	1,041	49	1,491	1,186	5,135	67				NA	3,028			
1985	46	0	458	9	104	1,344	1,083	2,997	67				NA				
1990 1995	28 192	0	725 548	15 1.207	133 245	1,740 1,024	2,617 2,618	5,231 5,643	57 64				(s) (s)	3,734 3,803			
2000	110	1	473	49	160	438	2,566	3,685	60				(s)	3,834			
2005	59	(s)	512	14	133	781	2,859	4,298	34				(s)	3,912			
2006 2007	59 72	(s)	456 451	41 58	141 244	811 428	2,743 2,663	4,194 3,844	38 38				0	3,896 3,864			
2008	99	(s)	347	5	247	434	2,335	3,367	39				ŏ	3,804			
2009	88	(s)	404	32 52	234	466	2,995	4,131	35				0				
2010 2011	61 58	(s)	326 342	52 44	143 147	451 454	3,244 3,246	4,215 4,233	42 49				0	3,672 3,665			
2012	50	(s)	376	0	140	326	3,055	3,897	59				ŏ	3,662			
2013	61	(s)	325 392	2	138	283 257	3,243	3,992	44 52				0	3,623			
2014 2015	61 50	(S)	392	5 7	171 284	257	3,011 3,008	3,836 3,919	52 59				0 (s)				
2016	12	(s)	163	8	281	408	2,835 R 2,867	R 3 696	38				2	3,722			
2017	0	(s)	311	56	283	514	R 2,867 R 2,413	R 4,032	37				3				
2018 2019	0	(s) (s)	263 380	106 27	292 293	445 396	R 2 Ana	R 3,519 R 3.501	34 59				3	3,593 3.635			
2020	ő	(s)	345	23	296	0	R 1 800	R 2 474	70				4	3,263			
2021	0	(s)	285 288	38 38	267	463	H 1,660	<sup>rt</sup> 2,711	72				4	3,327			
2022	0	(s)	288	38	289	474	1,621	2,710	61 Trillion Bto				4	3,453			
4000	0.0	0.0			0.4	6.5		440			NA	N/A	NA		45.0	R 4.7	Boos
1960 1965	0.0	0.0	3.2 3.7	0.2 0.3	0.4 0.4	10.8	3.9 6.1	14.2 21.3	0.0 R 0.3	0.0 0.2	NA NA	NA NA	NA NA	1.6 3.7	15.8 R 25.5	Rgs	R 20.5 R 34.0
1970	0.0	0.0	4.1	1.4	0.3	10.5	6.6	22.9	Roa	0.2	NA	NA	NA	5.9	R 25.5 R 29.2	R 13.7	H 42.9
1975 1980	0.0 0.0	0.0 0.0	3.5 8.0	1.7 3.7	0.3 0.3	8.5 9.4	7.3 7.3	21.2 28.6	R 0.2 R 0.2	0.3 11.9	NA NA	NA NA	NA NA	8.7 10.3	R 30.4 R 51.0	19.4 23.0	R 49.8 R 74.0
1985	1.1	0.0	2.7	(s)	0.5	8.4	6.8	18.5	Roa	14.0	0.0	NA NA	NA NA		H 44 6	Rogo	R 66 8
1990	0.7	0.0	4.2	0.1	0.7	10.9	16.0	31.9	Rna	18.2	0.0	(s)	(s)	12.7	R 63.7	R 34.7	R 98.4
1995 2000	4.1 2.1	0.0 0.6	3.2 2.8	4.2 0.2	1.3 0.8	6.4 2.8	16.1 15.9	31.2 22.4	R 0.2 R 0.2	13.3 9.9	0.0	(s)	(s)	13.0 13.1	R 61.7 R 47.7	R 29.9 R 29.0	R 91.6 R 76.7
2005	1.4	0.5	3.0	(s)	0.8	4.9	17.4	26.0	R 0 1	5.9	0.0	(s) (s)	(s)	13.3	R 46.8	R 24.6	R 71.4
2006	1.6	0.5	2.6	0.1	0.7	5.1	16.5	25.2	H 0 1	5.8	0.0	(s)	Ò.Ó	13.3	H 46.0	H 24 4	H 70 /
2007 2008	1.8 2.3	0.5 0.4	2.6 2.0	0.2	1.3 1.3	2.7 2.7	16.1 14.1	22.8 20.1	R 0.1 R 0.1	5.4	0.0	(s)	0.0		R 43.4 R 40.9	R 24.2 R 23.4	R 67.6 R 64.4
2008	2.0	0.4	2.3	(s) 0.1	1.2	2.7	18.5	25.1	m n 1	5.4 5.2	0.0	(S)	0.0		R 45 0	R 22.7	R 67.7
2010	1.4	0.4	1.9	0.2	0.7	2.8	20.0	25.7	R 0.1	4.4	0.0	(s)	0.0	12.5	H 44.2	R 22.7 R 22.5	R 66.7
2011 2012	1.3 1.1	0.4 0.4	2.0 2.2	0.2 0.0	0.7 0.7	2.9 2.1	20.0 18.7	25.7 23.6	R 0.2 R 0.2	3.7 3.8	0.0 0.0	(s)	0.0 0.0		R 43.4 R 41.2	R 22.4 R 21.9	R 65.8 R 63.1
2012	1.4	0.4	1.9	(s)	0.7	1.8	20.0	24.4	R 0.2	4.0	(s)	(S)	0.0		R 42.3	R 20.9	R 63.2
2014	1.4	0.4	2.3	(s)	0.9	1.6	18.6	23.4	R <sub>0.2</sub>	3.4	(s)	(s)	0.0	12.6	Rana	R 21 1	R 62.1
2015 2016	1.1 0.3	0.4 0.1	1.9 0.9	(s) (s)	1.4 1.4	1.9	18.6 18.0	23.7 22.9	R 0.2 R 0.1	3.2 3.4	(s)	(s)	(s) (s)	12.6 12.7	R 40.9 R 39.4	R 20.8 R 21.1	R 61.7 R 60.5
2016	0.3	0.1	1.8	0.2	1.4	2.6 3.2	R 18 1	R 24 8	R <sub>0.1</sub>	0.1	(S)	(8)	(S)	12.7	R 37.3	R 20 7	R 58.0
2018	0.0	0.1	1.5	0.4	1.5	2.8	H 15.3	R 21 5	<sup>rt</sup> 0.1	0.1	(s)	(s)	(s)	12.3	R 33.9	H 20.2	R 58.0 R 54.1
2019	0.0	0.1	2.2	0.1	1.5	2.5	R 15.1 R 11.4	R 21.4 R 14.9	R 0.2 R 0.2	0.1	(s)	(s)	(s)	12.4	R 34.1	R 20.0 R 18.4	R 54.1 R 44.8
2020 2021	0.0 0.0	0.1 0.1	2.0 1.6	0.1 0.1	1.5 1.3	0.0 2.9	10.5	R 16.6	R 0.2	0.1 0.1	(S)	(S)	(s) (s)	11.1 11.4	R 26.4 R 28.3	R 18.3	R 46.6
2022	0.0	0.1	1.7	0.1	1.5	3.0	10.3	16.5	0.2	0.1	(s)	(s)	(s)	11.8	28.6	19.1	47.7

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

H Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Hawaii

\ _							Pe	etroleum							
1		Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
<u> </u>	'ear	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
196 196 197	30	0	0	2,640 613	247	2	4,321 7,618	19 73 68	3,290 3,947	968 1,195	11,487	0			
190	70	0	0	133	844 722	26	14,273	73 68	5,508	1.744	14,294 22,473	0			
197	75	Õ	Õ	116	831	22 26	14,849	74 74	6,615	1,013 1,441	23.520	Õ			
198 198	30 35	0	0	199 155	3,331 3,184	26 6	14,116 13,260	74 68	7,129 7,443	1,441 1,526	26,317 25,641	0			
199	90	0	0	272	3.498	13	12.646	76	8,477	2,657	27.639	0			
199	95	0	0	218	2,683	8	9,940	73	9,160	2,657 2,677	24,759	0			
200 200	)() )5	0	0 (s)	45 44	1,627 3,827	0 15	9,438 16,372	78 65	9,118 10,833	2,226	22,532 32,278	0			
200	06	0	(s)	41	3,827 3,387	17	15,334	65 64 66	11,379	1,121 2,375 4,465	32,597	0			
200	07	0	(s)	41	6.246	12	12,756	66	11,092	4,465	34.678	Ō			
200	08 00	0	(s)	28 30	2,729 3,124	4 6	10,702 9,303	61 55	10,416 10,588	978 1,214	24,917 24,320	0	 		
201	10	0	(s)	37	4.019	3	13.435	76	9.838	1.075	28,483	0			
201	11	Ō	(s)	35 31	3,409 3,274	3	13,932 14,717	84	10,985	1,002 906	29,451	Ō			
201 201		0	(s) (s)	31	3,274 3,060	3	14,717 15,455	75 70	10,434 10,595	906 880	29,440 30,098	0			
201	14	0	(s)	27 28	1,591	4	15,732	79	10,648	848	28,920	0			
201	15	0	(s)	9	2,049	5	16,270	75	10,460	699	29,566	0			
201 201	16	0	(s)	7 10	2,179 2,148	4	16,135 17,195	84 75 79 70 75 R 66 R 62	10,626 10,560	810 1,148	R 29,827 R 31,123	0			
201	18	0	(s) (s)	22	2,146	(s) (s)	17,195	''h()	10,339	1,146	H 31 500	0			
201	19	Ö	Ó	22 31	2.082	(s) (s)	17.822	H 61	10.403	1,025 1,320	H 31 719	Ö			
202 202	20	0	(s) (s)	24 11	2,112 R 2,024	(s)	9,051 13,474	R 46 R 53	7,982 9,160	763 1,194	R 19,978 R 25,998	0	 	 	
202	22	0	0	11	2,177	0	15,564	55	9,207	1,223	28,320	0			
								Tril	lion Btu						
196	30	0.0	0.0	13.3	1.4	(s)	23.5	0.1	17.3	6.1	61.8	0.0	61.8	0.0	61.8
196	35	0.0 0.0	0.0 0.0	3.1	4.9 4.2	(s) (s) 0.1	42.3 80.1	0.4 0.4	20.7 28.9	7.5 11.0	79.0 125.3	0.0 0.0	79.0 125.3	0.0 0.0	79.0
197 197	70 75	0.0	0.0	0.7 0.6	4.2	0.1	83.5	0.4	28.9 34.7	6.4	130.5	0.0	130.5	0.0	125.3 130.5
198	30	0.0	0.0	1.0	19.4	0.1	79.2	0.5	37.4	9.1	146.7	0.0	146.7	0.0	146.7
198	35	0.0	0.0	0.8	18.5 20.4	(s)	74.4	0.4	39.1	9.6	142.9	0.0	142.9 154.5	0.0	142.9
199	90 95	0.0 0.0	0.0 0.0	1.4 1.1	20.4 15.6	(s) (s)	71.1 56.4	0.5 0.4	44.5 47.7	16.7 16.8	154.5 138.0	0.0 0.0	134.5	0.0 0.0	154.5 138.0
200	00	0.0	0.0	0.2	9.5	0.0	53.5	0.5	47.4	14.0	125.1	0.0	125.1	0.0	125.1
200 200	05	0.0 0.0	(s) (s)	0.2 0.2	22.3 19.7	0.1 0.1	92.8 86.9	0.4 0.4	56.2 59.0	7.0 14.9	179.1 181.2	0.0 0.0	179.1 181.4	0.0 0.0	179.1 181.4
200	)6 )7	0.0	(S) (S)	0.2	36.1	(s)	72.3	0.4	59.0 57.0	28.1	194.2	0.0	194.4	0.0	194.4
200	08	0.0 0.0	(s)	0.1	36.1 15.8	(s)	72.3 60.7	0.4	57.0 53.2	6.1	194.2 136.3	0.0	194.4 136.5	0.0 0.0	194.4 136.5
200 201	09	0.0 0.0	(s) (s)	0.1	18.0 23.2	(s) (s)	52.7 76.2	0.3 0.5 0.5	53.9	7.6 6.8	132.8 156.7	0.0 0.0	132.8 156.7	0.0 0.0	132.8
201		0.0	(S)	0.2 0.2	19.7	(S) (S)	79.0	0.5	49.8 55.6	6.3	161.3	0.0	161.3	0.0	156.7 161.3
201	12	0.0	(s)	0.2	18.9	(s)	83.4	0.5	52.8 53.6	5.7 5.5	161.5 165.0	0.0	161.5	0.0	161.5 165.0
201	13	0.0	(s)	0.1	17.6	(s)	87.6	0.5	53.6	5.5	165.0	0.0	165.0	0.0	165.0
201 201	1 <del>4</del> 15	0.0 0.0	(s) (s)	0.1 (s)	9.2 11.8	(s) (s)	89.2 92.2	0.4 0.5	53.9 52.9 53.7 53.4	5.3 4.4	158.1 161.9	0.0 0.0	158.1 161.9	0.0 0.0	158.1 161.9
201	16	0.0	(s)	(s) (s) 0.1	12.5 12.4	(s)	91.5	0.4	53.7	5.1 7.2	163.3	0.0	163.3	0.0	163.3
201	17	0.0	(s)	0.1	12.4	(s)	97.5	0.4	53.4	7.2	170.9	0.0	170.9	0.0	170.9
201 201		0.0 0.0	(s) 0.0	0.1 0.2	15.0 12.0	(s) (s)	98.9 101.0	0.4 0.4	52.3 52.6	6.4 8.3	173.1 174.4	0.0 0.0	173.1 174.4	0.0 0.0	173.1 174.4
202	20	0.0	(s)	0.1	12.0 12.2	(s)	51.3	0.3	40.3	4.8	109.0	0.0	109.0	0.0	109.0
202 202	21	0.0	(s) (s) 0.0	0.1 0.1	11.7	0.0 0.0	76.4	0.3 0.3	46.3 46.5	7.5 7.7	R 142.6 155.8	0.0	R 142.6 155.8	0.0 0.0	R 142.6 155.8
202	22	0.0	0.0	0.1	12.6	0.0	88.3	0.3	46.5	7.7	155.8	0.0	155.8	0.0	155.8
_															

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Hawaii

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kild	owatthours	Wood and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	0	0	37	0	2,719	2,756	0	27		0	NA	NA	0	
1965 1970	0	0	37 61 96	0	2,719 4,292 6,702	4,353 6,798	0	27 22 22		0	NA NA	NA NA	0	
1975 1980	0	0	429 888	0	8,880 10,239	9,309 11,127	0	18 20		0	NA NA	NA NA	0	 
1985	0	0	752	0	10 295	11.047	Ö	19		19	0	0	0	
1990 1995	1 703	0	1,813 2,211	0	13,844 10,709	15,657 12,921	0	23 34		0 235	0	29 20	0	
2000	706	0	2,775	0	10.848	13,623	Ŏ	43		262 222	Ö	17	Ö	
2005 2006	680 655 692	0	2,584 2,453	0	11,304 11,499	13,888 13,952	0	62 82		222 212	0	7 80	0	
2007 2008	692 741	0	2,313 2,199	0	11,426 11,009	13,738	0	55 45		230 234	0	238 240	0	
2009	703	0	2.250	0	10 704	13,209 12,954	ŏ	77		168	(s) 1	251	0	
2010 2011	703 742 724	0	2,246 2,264	0	10,364 10,255	12,610 12,518	0	29 45		201 224	2	261 341	0	
2012	753 692 769	0	2.183	Ö	9 494	11.677	ŏ	56		261	5	378	ŏ	
2013 2014	692 769	0	2,079 2,055	0	9,216 8,767	11,295 10,822	0	34 42		275 254	19 39 54	503 579	0	
2015 2016	697 775 759	0	2,134 2,037	0	8,746	10,880 10,498	0	63 53		230 260	54 89	613 639	0	
2017	775 759	0	2.094	0	8,746 8,461 8,395	10.488	Ö	29		323	175	532	0	
2018 2019	734 717	0	2,154 2,317	0	8,397 8,379	10,551 10,696	0	62 35		110 0	185 268	602 529	0	
2020	670	0	2,195	0	7.760	9,955	ő	29		10	484	592	Ŏ	
2021 2022	634 380	0	2,178 2,385	0	7,708 8,477	9,886 10,862	0	43 50		184 208	507 551	658 625	0	
							Γrillion Btu							
1960 1965	0.0 0.0	0.0	0.2 0.4	0.0 0.0	17.1	17.3	0.0 0.0	R 0.1	0.0	0.0	NA	NA	0.0 0.0	R 17.4 R 27.4
1970	0.0	0.0 0.0	0.4	0.0	27.0 42.1 55.8	27.3 42.7	0.0	R 0.1 R 0.1 R 0.1	0.0 0.3	0.0 0.0	NA NA	NA NA	0.0	H 43 0
1975 1980	0.0 0.0	0.0 0.0	0.6 2.5 5.2	0.0 0.0	55.8 64.4	58.3 69.5	0.0 0.0	R 0.1	0.3 0.0	0.0	NA NA	NA NA	0.0 0.0	R 58.6 R 69.6
1985	0.0	0.0	4.4	0.0	64.7	69.1	0.0	R 0.1 R 0.1	0.3	R 0.0	0.0	0.0	0.0	R 69.5
1990 1995	(s) 15.8	0.0 0.0	10.6 12.9	0.0 0.0	87.0 67.3	97.6 80.2	0.0 0.0	R 0.1 R 0.1	7.8 6.5	0.0 R 0.8	0.0 0.0	R 0.1 R 0.1	0.0 0.0	R 69.5 R 105.6 R 103.5
2000	15.5 15.1	0.0	16.1 15.0 14.2	0.0	68.2	84.4	0.0	R 0.1 R 0.2 R 0.3 R 0.2 R 0.2	5.3 0.0	Rng	0.0	Bo 1	0.0	R 106.3 R 102.2 R 102.3 R 102.3 R 99.5
2005 2006	14.5	0.0 0.0	15.0 14.2	0.0 0.0	71.1 72.3	86.1 86.5	0.0 0.0	R 0.3	(s)	R 0.8 R 0.7	0.0 0.0	R (s) R 0.3 R 0.8 R 0.8	0.0 0.0	R 102.2
2007 2008	15.3 15.8	0.0 0.0	13.4 12.7	0.0 0.0	71.8 69.2	85.2 81.9	0.0 0.0	R 0.2	0.0 0.0	R 0.8 R 0.8	0.0 (s)	R 0.8	0.0 0.0	R 102.3
2009	15.0	0.0	13.0	0.0	67.3	80.3	0.0	R 0.3	(s) (s)	R 0.6	(s)	H 0.9	0.0	n 9 / 1
2010 2011	15.7 14.8	0.0 0.0	13.0 13.1	0.0 0.0	67.3 65.2 64.5	78.1 77.5	0.0 0.0	R 0.3 R 0.1 R 0.2	(s) 0.6	R 0.7 R 0.8	(s) (s)	R 0.9 R 1.2	0.0 0.0	R 95.5 R 95.0
2012	15.4 13.9	0.0	12.6 12.0	0.0	59.7 57.9	72.3 69.9	0.0	R 0.2	0.4	R 0.9 R 0.9	(s) R 0.1	R 1.3 R 1.7	0.0 0.0	R 90.5 R 87.2
2013 2014	13.9 15.9	0.0 0.0	12.0 11.8	0.0 0.0	57.9 55.1	67.0	0.0 0.0	R 0.1	0.5 0.6	R 0.9	R n 1	B o o	0.0	H 86 6
2015 2016	14.5 16.2	0.0 0.0	12.3 11.7	0.0 0.0	55.1 55.0 53.2	67.3 64.9	0.0 0.0	R 0.2 R 0.1 R 0.1 R 0.2 R 0.2	0.9 1.1	Ros	R 0.2 R 0.3	R 2.1	0.0 0.0	R 85.9 R 85.7
2017	16.2 14.9 14.4	0.0	12.1	0.0	53.2 52.8 52.8	64.8	0.0	R 0.1 R 0.2	1.8	R 0.9 R 1.1	R06	R 2.1 R 2.2 R 1.8 R 2.1 R 1.8	0.0	H 85 2
2018 2019	14.4 14.2	0.0 0.0	12.4 13.3	0.0 0.0	52.8 52.7	65.2 66.0	0.0 0.0	H 0.2 R 0.1	1.5 1.3	R 0.4 _ 0.0	R 0.6	H 2.1 R 1 p	0.0 0.0	R 84.3 R 84.3
2020	13.3	0.0	12.6	0.0	48.8	61.4	0.0	R 0.1	1.1	R (s) R 0.6	R 0.9 R 1.7	n 2 0	0.0	H 79 6
2021 2022	13.3 12.6 7.7	0.0 0.0	12.6 13.7	0.0 0.0	48.5 53.3	61.0 67.0	0.0 0.0	R 0.1 R 0.1 R 0.1 0.2	1.4 1.3	H 0.6 0.7	R 1.7 1.9	R 2.2 2.1	0.0 0.0	R 79.7 80.9
	1.7	0.0		0.0		00	0.0			0.7		=	0.0	55.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Idaho

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	lillion kilowatthou	rs	Thousan	d barrels
1960	699	22	4,072	455	899	6,965	205	887	13,484 15,819 19,278 19,753 21,001 21,655	0	6,165	0	NA	NA
1960 1965 1970 1971	699 673 353 544 483 484	22 34 47	4,803 5,600	455 560 1,057	899 870 960	6,965 7,654	205 356 277	1,576 1,700	15,819	0	6,165 6,641 7,076	0	NA	NA
1970	353	4/	5,600 5,708	1,057	960 1,007	9,684 10,020	2//	1,700 1,565	19,278	0	7,076	0	NA NA	NA NA
1972	483	50 57 56	5,700 5,953	1,171 1,406 1,195	985	10,020	282 244	1,303	21 001	0	7,469 7,844 8,279	0	NA NA	NA NA
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	484	56	5,953 6,481	1,195	985 943	10,565 11,043 10,691 11,288	241	1,849 1,752	21,655	Ö	8,279	Ŏ	NA	NA
1974	529 647	53 60	7 049	1,235 1,184	985 950	10,691	587 684	1.484	22,032 22,973	0	9,686 10,274	0	NA	NA
1975	647	60	7,560	1,184	950	11,288	684	1,307	22,973	0	10,274	0	NA	NA
19/6	772	47 46	7,474 8,170	1,2/4	978 980 1,013	12,035	771 600	1,373 1,402 1,504	23,906	0	10,372 6,749 9,871	0	NA NA	NA NA
1977	608 600	44	8 575	1,200	1 013	12,247	906	1,402	24,090 26,286	0	9,749 9,871	0	NA NA	NA NA
1979	628 514	54	7,758 5,662	1,164 1,274 1,208 1,348 1,142 993 879 1,030	1,135 1,243	12,035 12,247 12,941 12,154 11,078 10,523 10,275 10,528 10,672 10,893 10,727 11,205 11,527 11,453 11,610 11,947 12,927 13,521 14,174 14,462 15,284 15,886 15,392 15,098	690 906 1,221	1,318	23,906 24,696 26,286 24,729 20,731 18,294 17,861	ŏ	9,165 9,507	ŏ	NA	NA NA
1980	514	49 45 40	5,662	993	1,243	11,078	613 54 215	1.141	20,731	0	9,507	0	NA	NA
1981	535 575	45	4,764 4,483 5,237 5,170	879	1,223 1,044	10,523	54	850 813	18,294	0	9,507 11,591	0	0	NA
1982	5/5 516	40	4,483	1,030	1,044 959	10,2/5	215	813	17,861	0	11,591	0	6 20	NA NA
1984	490	35 39	5,237 5 170	673	1,089	10,363	63	913 712	18 235	0	12,771 13,195	0	18	NA NA
1985	490 486	39	5 287	1,067 673 778 735 621 747 839 610 814 669	1 100	10,672	104 63 86 20 64 56 45 47 44 22 38	884	18,664 18,664 18,235 18,829 19,178 19,354 20,002 21,267	ŏ	10 863	ŏ	40	NA
1986 1987	466 494	35 37	5,611 6,019	735	1,122 1,117 1,154 1,178 1,239 1,143	10,893	20	801 768 640	19,178	0	12,153 8,105 6,745 9,349	0	48	NA
1987	494	37	6,019	621	1,154	10,727	64	768	19,354	0	8,105	0	59	NA
1988 1989 1990 1991 1992 1993 1994	524 533 549	41 46	6,176 6,547 7,079 7,403 6,378	/4/	1,1/8	11,205	56	640 1,071	20,002	0	6,745	0	109 187	NA NA
1909	533 549	46	0,547 7,079	610	1,239	11,527	45 47	1,071	21,207 21.847	0	9,349 9 115	0	166	NA NA
1991	673 535	51	7,403	814	957	11,610	44	1,516 1,216	21,847 22,043	ŏ	9,115 8,745	ŏ	187	NA NA
1992	535	49	6,378	669	9/3	11,947	22	1.657	21,647	0	6,654	0	117	NA
1993	528 534 465 397	56	7,134 7,239	682 645 758 2,656 550 419	1,076	12,770	38	1,792	23,492	0	6,654 9,715 7,916	0	18	NA NA
1994	534	57 64	7,239	645	1,201	12,927	21 7	2,060	24,094	0	7,916	0	16 11	NA NA
1995 1996 1997 1998 1999 2000 2001	397	67	7,567 8,023 8,478	2 656	1,568 874 760 718	14 174	7	2,280 2,305	28,702	0	10,989 13,283 14,676	0	0	NA NA
1997	361	69	8.478	550	760	14.462	2	2,376	26.627	ŏ	14.676	ŏ	Ŏ	NA
1998	479	69 69	7,813 8,925 9,047 9,126	419	718	15,284	5	2,376 3,346	27,585	0	12 936	0	0	NA
1999	430	71	8,925	954	856	15,886	6	3,345 3,330	29,972	0	13,499 10,967 7,223	0	0	NA
2000	623	73 80	9,047	2,045	880 724	15,392	2 23	3,330 2,116	30,696	0	10,967	0	0	NA (a)
2001 2002	223 487	71	9,120 8,893	1,495 926	724 793	15,096	23 80	2,110	20,301	0	7,223 8,769	0	0	(S)
2003	503	70	8,893 8,641 9,542	954 2,045 1,495 926 871	793 686	14,711	(s)	2,912 996	25,905	Ŏ	8,354	ŏ	ŏ	(s) (s) (s)
2004	607	75	9,542	1,412	822	14,969	(s) 0	2,021 1,991	28,767	0	8,462	0	0	
2002 2003 2004 2005 2006 2007	548	75 75 76	10,198 9,970	1,412 1,512 1,575	822 819 981 903 842	14,806	221	1,991	29,547	0	8,542	0	337	2 7
2006	403	/6	9,970	1,5/5	981	15,681	145 37	2,286 1,796	30,638	0	11,242	170	325	10
2007	304 432	82 89	10,014 8,605	1,670	903	15,174	0	2,211	30,594 28,876	0	9,022	207	541 666	10 8
2009	422	85	8.439	1,417	576	15,871	8	1.450	27.761	0	10.434	313	791	9
2009 2010	424	85 83	8,439 10,169	1,670 1,602 1,417 1,380	576 1,248	15,096 15,511 14,711 14,969 14,806 15,681 16,174 15,616 15,871 16,488	21	1,450 1,548	30,854	0	9,154	172 207 313 441	791 968	9 7
2011 2012	389	83 89	10,476 9,632 9,987	1,528 1,375 1,705	1.059	16,042	7	1.452	21,647 23,492 24,094 25,702 28,039 26,627 27,585 29,972 30,696 28,581 29,115 25,905 28,767 29,547 30,638 30,594 28,876 27,761 30,854 30,563 30,563	0	13,405	1,307 1,891	1,214	24
2012	253	89	9,632	1,375	1,060	16,558	3	1,344 1,258	29,973	0	10,940	1,891	1,350	42
2013 2014 2015	361 479 430 623 553 487 503 607 548 403 504 432 422 424 389 253 364 352 192 107	105 92	9,987 10.584	1,/U5 1 379	1,113 1,317	16,042 16,558 16,863 17,160 18,110	0	1,258 1,288	29,973 30,927 31,727 34,264 R 34,828 R 35,070 R 35,570 R 36,318 R 34,894 R 36,847 37,128	0	8,769 8,354 8,462 8,542 11,242 9,062 9,363 10,434 9,154 13,405 10,940 8,473 9,002 8,757	2,460 2,806	1,214 1,350 1,437 1,428 1,801	24 42 30 60 33 129 79 98 166 158 8 94
2015	192	92 105	11,867	1,378 1,257	1,317 1,293	18,110	0	1,737	34,264	0	8,757	2,806 2,270	1,801	33
2016 2017	107	106	10,584 11,867 12,293 11,842	1 367	1 170	18,769 19,158 18,103 19,044 18,385	4	1,288 1,737 R 1,225 R 1,138 R 1,115	R 34,828	Ŏ	9,033	2,578 2,545 2,655 2,551 2,771	1,942	129
2017	114	111	11,842	1,582 1,594	1,350 1,473	19,158	0	H 1,138	H 35,070	0	9,033 10,670 11,024	2,545	1,942 1,989 1,868	79
2018	122	112	13.280	1,594	1,473	18,103	5	n 1,115	n 35,570	0	11,024	2,655	1,868	98
2019 2020	101 108	129 126	12,883 12,611	1,919 1,867	1,373 918	19,044	0	1,099 R 1 112	R 34 804	0	10,333 9 508	2,551 2,771	2,001 1,950	166 159
2021	125	133	R 12.827	1.840	1.456	19.486	2	R 1.237	R 36.847	0	7.995	2,680	1,964	R 94
2021 2022	125 76	133 139	R 12,827 12,710	1,840 2,075	1,456 1,825	19,364	2	R 1,099 R 1,112 R 1,237 1,152	37,128	ŏ	10,333 9,508 7,995 8,360	2,680 2,442	1,964 1,819	55

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Idaho (trillion Btu)

					Fossi	fuels						Fossil fuels	
						Petroleum						(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	16.8	22.8	23.7	1.7	4.8	36.6	1.3	5.5	73.6	113.3	22.8	23.7	36.6
1960 1965	15.9	36.1	23.7 28.0	2.1	4.8 4.7	40.2	1.3 2.2	9.6	73.6 86.8	138.8	36.1	28.0	36.6 40.2 50.9 52.6
1970 1971	7.9 12.2	49.4 53.2	32.6 33.2	4.0	5.2 5.5	50.9 52.6	1.7 1.8	10.7	105.2 107.4	162.5 172.7	49.4 53.2	32.6 33.2	50.9
1971	10.5	53.2 60.1	33.2 34.7	4.5 5.3	5.5 5.3	52.6 55.5	1.8	9.8 11.6	114.0	172.7 184.6	60.1	33.2 34.7	5∠.6 55.5
1973	10.5	59.3	37.8	4.5	5.3	58.0	1.5 1.5 3.7	11.0	117.9	187.9	59.3	34.7 37.8	55.5 58.0
1974	11.4	59.3 55.3	41.1	4.5 4.7	5.1 5.4	56.2	3.7	9.3	117.9 120.2	186.9	59.3 55.3	41.1	56.2
1975 1976	13.4 15.2	63.8 49.8	44.0 43.5	4.4 4.8	5.2 5.3 5.4	59.3 63.2	4.3 4.8	8.3 8.6	125.5 130.3	202.7 195.3	63.8 49.8	44.0	59.3 63.2
1976	15.2	49.8	43.5	4.8	5.3	63.2	4.8	8.6	130.3 134.9	195.3	49.8 48.3	43.5	63.2
1977 1978	12.1 11.4	48.3 46.6	47.6 49.9	4.5 5.0	5.4 5.6	64.3 68.0	4.3 5.7	8.8	134.9	195.3 201.6	48.3 46.6	47.6 49.9	64.3 68.0
1979	11.9	56.8	45.2	4.2	5.6 6.2	68.0 63.8	4.3 5.7 7.7	9.4 8.3 7.2 5.3	143.6 135.4	204.0	56.8	45.2	63.8
1980	9.6	51.6	33.0	3.6 3.2	6.8	58.2 55.3	3.9 0.3	7.2	112.7 98.6	173.9	51.6	33.0	58.2 55.3
1981	9.8	48.1	27.8	3.2	6.7	55.3	0.3	5.3	98.6	156.5	48.1	27.8	55.3
1982 1983	10.4 9.5	42.8	26.1 30.5	3.7 3.9	5.7 5.2	54.0 54.6	1.4 0.7	5.1 5.8	96.0 100.6	149.2	42.8 36.8	26.1 30.5	54.0 54.6
1983	9.5 9.0	36.8 40.3	30.5 30.1	3.9	5.2	54.6 55.3	0.7	5.8 4.5	98.7	146.9 148.1	30.8	30.5 30.1	54.6 55.3
1985	8.9	41.1	30.8	2.5 2.8 2.7 2.3	5.9 6.1 6.1	56.1	0.5	4.5 5.6 5.1	102.0	152.0	40.3 41.1	30.8	56.1
1985 1986	8.6	35.5	32.7	2.7	6.1	57.2	0.1	5.1	102.0 103.9	152.0 148.0	35.5 37.8 41.6	32.7 35.1	<i>57.2</i>
1987	8.9	37.8	35.1	2.3	6.3	56.4	0.4	4.9	105.3	151.9	37.8	35.1	56.4
1988 1989	9.7 9.8	41.6 46.9	36.0 38.1	2.8	6.4	58.9	0.4	4.1	108.4 115.8	159.7 172.4	41.6	36.0	58.9
1989	9.8 10.1	46.9 46.8	38.1 41.2	3.1 2.3	6.8 6.3	60.6 60.2	0.3 0.3	6.9 9.9	120.1	172.4 177.0	46.9 46.8	38.1 41.2	60.6 60.2
1991	12.3	52.7	43.1	3.0	5.3	61.0	0.3	7.9	120.5	185.5	46.9 46.8 52.7	43.1	61.0
1992	9.6	50.4	37.2	3.0 2.5 2.5	5.3 5.3 5.9	62.8	0.1 0.2	10.9	118 7	178.7	50.4	43.1 37.2	62.8
1993	9.8	58.3	41.6	2.5	5.9	66.6	0.2	11.7	128.4	196.5	58.3	41.6	66.6
1994 1995	9.7 8.9	59.1 65.7	42.1 44.0	2.4 2.8	6.6 8.6	67.3 70.3	0.1	13.5 14.9	132.1 140.7 149.9	200.8 215.4	59.1 65.7	42.1 44.0	67.4 70.4
1996	7.3	69.2	46.7	9.4	4.9	70.3 73.9	(s) (s) (s)	15.1	140.7	226.4	69.2	46.7	70.4 73.9
1997	6.4	70.8	49.3	2.1	4.3	73.9 75.3 79.5	(s)	15.5	146.5	223.8	70.8	49.3	75.3 79.5
1998	8.8	71.9	45.5	1.5	4.1	79.5	(s) (s)	21.9	152.6	233.3	71.9	45.5	79.5
1999	8.0	73.4 74.5	51.9	3.6	4.9	82.6	(s)	21.9	165.0 167.3	246.4	73.4 74.5	51.9	82.6 80.1
2000 2001	13.7 11.4	74.5 81.8	52.6 53.1	7.7 5.7	5.0 4.1	80.1 78.5	(s) 0.1	21.9 13.8	167.3 155.4	255.6 248.6	/4.5 81.8	52.6 53.1	80.1 78.5
2002	10.2	73.5	51.7	3.5	4.5	80.6	0.5	19.1	160.0	243.7	73.5	53.1 51.7	80.6
2003	10.2	71.8	50.3	3.3	3.9	76.5	(s)	6.4	140.3	222.3	81.8 73.5 71.8	50.3	76.5
2004 2005	12.3 11.3	78.3	55.5 59.3	5.4 5.7	4.7	77.8 75.7	(s) 0.0 1.4	13.1 13.0	156.5 159.7	247.1	78.3 78.1	55.5 59.3	77.8 76.9
2005	11.3 8.2	78.1 79.0	59.3	5.7	4.6	75.7	1.4 0.9	13.0	159.7 165.4	249.1	78.1	59.3	76.9
2006 2007	8.2 10.3	79.0 83.9	57.9 57.9	5.9 6.2	5.6 5.1 4.8	80.2 81.3	0.9	14.9 11.7	165.4 162.5	252.6 256.6	79.0 83.9 90.6	57.9 57.9	81.3 83.2 79.7
2008	10.3 8.6	90.6	49.7	61	4.8	77.4	0.0	14.5	162.5 152.5	251.6	90.6	49.7	79.7
2009	8.4 8.5	87.1 85.1	48.4	5.4 5.3	3.3 7.1	78.0 80.2	0.1	9.4	144.5 161.1	240.1 254.7	87.1 85.1	48.7 58.7	80.8 83.5
2010	8.5	85.1	58.4	5.3	7.1	80.2	0.1	10.0	161.1	254.7	85.1	58.7	83.5
2011 2012	7.8 5.2	83.9 90.3	59.7 54.8	5.9 5.3	6.0	77.0 79.1	(s)	9.4 8.7	158.0 153.9	249.8 249.4	83.9 90.3	60.4 55.5	81.2 83.8
2012	5.2 8.0	90.3 107.1	54.8 56.1	5.3 6.6	6.0 6.3	/9.1 80.3	(s) (s) 0.0	8.7 8.1	157 /	249.4 272.4	90.3	55.5 57.6	85.8 85.3
2014	7.5	93.6	59.5	5.3	7.5	80.3 81.9 85.3	0.0	8.3	162.4 175.3 R 176.1 R 176.7	263.5	93.6 107.9	61.0	85.3 86.8
2015	42	107.9	66.5	4.8	7.3	85.3	0.0	11.3	175.3	287.4	107.9	68.4	91.6
2016	2.4 2.6	110.3	68.1 65.7	5.3 6.1	6.6 7.7	88.1 89.9	(s) 0.0	7.9 7.3	H 176.1	288.8 R 295.2	110.3 115.9	70.8 68.2	94.9 96.8
2017 2018	2.6	115.9 115.8	65.7 74.1	6.1 6.1	7.7 8.4	89.9	0.0	7.3 R 7.2	''1/b./ 180.7	H 200 4	115.9	68.2 76.5	96.8
2019	2.6	133.3	71.9	7.4	7.8	85.0 89.2	(s) 0.0	R 7.1	180.7 183.3 R 175.9	R 319.0 R 307.9	115.8 133.3	76.5 74.2	91.5 96.2
2020	2.7	129.4	70.3	7.4 7.2	5.2	86.1	0.0	R 7.1 R 7.2	R 175.9	R 307.9	129.4	72.6	92.9
2021	3.1	135.2	R 72.9	7.1	8.3	91.6	(s) (s)	7.9	<sup>R</sup> 187.4	H 325.6	135.2	R 73.9	98.4
2022	1.9	141.9	72.2	8.0	10.3	91.4	(s)	7.4	189.2	333.0	141.9	73.3	97.8

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Idaho (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 21.0	11.4	NA	NA	NA	NA	11.4	0.0	NA	NA	R 32.4	R 36.3	0.0	R 182.0
1965 1970	0.0 0.0	n 22 7	10.4 11.5	NA NA	NA NA	NA NA	NA NA	10.4 11.5	0.0 0.0	NA NA	NA NA	R 33.0 R 35.6	R 52.3	(s) (s)	R 224.1
1971	0.0	R 24.1 R 25.5	11.2	NA	NA	NA	NA	11.2	0.0	NA	NA NA	R 35.6 R 36.7	R 85.0 R 88.1	(s)	R 283.1 R 297.5
1972	0.0	R 26.8 R 28.2 R 33.0	11.4	NA	NA	NA	NA	11.4	0.0	NA	NA	R 38.1 R 39.5	H 97 N	(s)	R 319.7 R 323.6
1973 1974	0.0 0.0	R 33 0	11.2 10.3	NA NA	NA NA	NA NA	NA NA	11.2 10.3	0.0 0.0	NA NA	NA NA	H 43 4	R 96.3 R_101.3	(s) (s)	R 221 6
1975	0.0	H 35 1	11.1	NA	NA	NA	NA	11.1	0.0	NA	NA	H 46.2	R 94.8 R 103.4 R 121.6 R 104.9	0.0	R 343.6 R 347.9 R 355.5 R 357.2
1976 1977	0.0 0.0	R 35.4 R 23.0	13.8 15.5	NA NA	NA NA	NA NA	NA	13.8 15.5	0.0 0.0	NA NA	NA NA	R 49.2 R 38.6	H 103.4	0.0 0.0	H 347.9
1977	0.0	H 22 7	17.1	NA NA	NA NA	NA NA	NA NA	17.1	0.0	NA NA	NA NA	R 50.7	R 104 9	0.0	R 357 2
1979	0.0	R 31.3	18.8	NA	NA	NA	NA	18.8	0.0	NA	NA	R 50 1	R 116.5	0.0	n 370 7
1980 1981	0.0 0.0	R 31.3 R 32.4 R 32.4 R 39.6	14.6 16.3	NA 0.0	NA NA	NA NA	NA 0.0	14.6 16.3	0.0 0.0	NA NA	NA NA	R 47.1 R 48.8	R 116.5 R 113.8 R 142.1 R 128.3 R 119.5 R 118.9 R 132.4	0.0 0.0	R 334.8
1982	0.0	R 39.6	16.1	(s)	NA NA	NA NA	0.0	16.1	0.0	NA NA	NA NA	H 55 6	R 128.3	0.0	R 347.4 R 333.2
1983	0.0	H 43 6	17.9	(s) 0.1	NA	NA	0.0	18.0	0.0	NA	0.0	R 61.5 R 63.5	R 119.5	0.0	R 327.9 R 330.5 R 340.4
1984 1985	0.0 0.0	R 45.0 R 37.1	18.2 18.3	0.1 0.1	NA NA	NA NA	0.2 0.3	18.4 18.7	0.0 0.0	0.0 0.0	0.0 0.0	<sup>n</sup> 63.5 R 55.8	n 118.9	0.0 0.2	n 330.5
1986	0.0	R 41.5	18.9	0.1	NA NA	NA NA	0.3	19.4	0.0	0.0	0.0	R 60.9	R 119.1	0.0	R 328.0
1986 1987	0.0	H 27.7	18.9 16.4	0.2	NA	NA	0.4	19.4 17.0	0.0	0.0 0.0	0.0	H 44 7	R 119.1 R 136.8	0.1	R 328.0 R 333.5 R 355.0 R 386.2
1988 1989	0.0 0.0	R 23.0 R 31.9	17.0 25.8	0.4 0.6	NA NA	NA NA	0.4 0.4	17.8 26.8	0.0 0.5	0.0 (s)	0.0 0.0	R 40.8 R 59.2	R 154.1 R 154.4 R 107.4 R 110.0 R 142.4	0.3 0.1	n 355.0
1990	0.0	R 31.1 R 29.8	23.5	0.6	NA NA	NA NA	0.4	24.3	0.5	(s)	0.0	R 56.0 R 54.8	R 107.4	0.1	R 340.8 R 350.8
1991	0.0	R 29.8	23.4	0.6	NA	NA	0.4	24.4	0.5	(s)	0.0	R 54.8	R 110.0	0.5	R 350.8
1992 1993	0.0 0.0	R 22.7	25.1 24.8	0.4 0.1	NA NA	NA NA	0.3 0.3	25.8	0.5	(s) (s)	0.0	R 49.0	H 142.4	0.9 0.0	R 371.1
1993	0.0	R 33.1 R 27.0	23.6	0.1	NA NA	NA NA	0.3	25.2 24.1	0.5 0.5	(S)	0.0 0.0	R 58.9 P 51.6	R 111.2 R 140.5	0.0	R 366.6 R 393.1
1995	0.0	R 37.5 R 45.3	25.2 26.0	(s)	NA	NA	0.4	25.6	0.5	(s)	0.0	H 63.6	R 107.1 R 101.5 R 92.2 R 109.8	(s) 0.6	R 386.1 R 400.6 R 395.7 R 415.6
1996 1997	0.0 0.0	R 45.3 R 50.1	26.0	0.0 0.0	NA NA	NA NA	0.1 0.2	26.2	0.5	(s) (s)	0.0 0.0	R 72.0 R 79.2	H 101.5	0.6 0.6	H 400.6
1998	0.0	R 44 1	28.4 27.1	0.0	NA NA	NA	0.2	28.6 27.4	0.5 0.6	(s)	0.0	R 72 1	R 109.8	0.5	R 415.6
1999	0.0	R 46.1	27.8	0.0	NA	NA	0.3	28.1 27.9	1.3	(s)	0.0	R 75.4 R 66.6	R 112.8 R 143.6	0.2	R 434.8 R 466.2
2000 2001	0.0 0.0	R 37.4 R 24.6	27.6 28.1	0.0 0.0	NA (s)	NA NA	0.3 0.3	27.9 28.4	1.3 1.5	(s) (s)	0.0 0.0	R 66.6 R 54.6	n 143.6	0.4 (s)	R 466.2 R 449.8
2002	0.0	Н 29 9	22.0	0.0	(s)	NA NA	0.3	22 4	1.5	(s)	0.0	H 53 9	R 146.6 R 135.1 R 135.0	(s)	R 432 7
2003	0.0	Rags	22.5	0.0	(s)	NA	0.5	23.0	1.3	(s)	0.0 0.0	R 52 8	R 135.0	(s)	H 410 1
2004 2005	0.0 0.0	R 28.9 R 29.1	25.7 34.1	0.0 1.2	(s) (s)	NA NA	0.2 0.0	25.9 35.3	1.4 1.5	(s) (s)	0.0 _ 0.0	R 56.2 R 66.0	R 138.7 R 137.5	0.1 0.3	R 442.1 R 453.0
2006	0.0	R 38.4 R 30.8	31.8	1.1	(s)	NA	0.0	33.0 35.0	1.5	(s)	R 0.6 R 0.6	R 73.4 R 67.9	R 121.6 R 150.9	0.1	R 447.8 R 475.6
2007	0.0	R 30.8	33.0	1.9	0.1	NA	0.1	35.0	1.5	(s)	R 0.6	R 67.9	R 150.9	0.2	R 475.6
2008 2009	0.0 0.0	R 31.9 R 35.6 R 31.2	31.8 25.8	2.3	(s) (s)	NA NA	2.0 0.7	36.2 29.2	R 1.8 R 1.6	(s)	R 0.7 R 1.1 R 1.5	R 70.7 R 67.6	R 145.9 R 120.3 R 129.6	-0.1 -0.2	R 468.1 R 427.8 R 455.2 R 420.8 R 426.9
2010	0.0	R 31.2	29.8	2.7 3.4	(s)	NA NA	3.3	36.5	H17	(s)	R 1.5	R 70.9	R 120.3	-0.2	R 455.2
2011	0.0	H 45 7	24.9	4.2	0.1	0.0	3.4	32.6	H18	(s)	H45	R 84.6	R 86.5	-0.1	R 420.8
2012 2013	0.0 0.0	R 37.3 R 28.9	24.2 26.0	4.7 5.0	0.2 0.2	0.0 0.0	3.1 3.1	32.2 34.3	R 1.8 R 1.6	R (s)	R 6.5 R 8.4	R 77.8 R 73.3	R 86.5 R 99.6 R 108.2	(s) (s)	H 426.9
2013	0.0	R 30.7	32.3	5.0	0.3	0.0	3.6	41.2	H18	B / (	Raa	R 83.3	H 96 9	(s)	R 453.8 R 443.6
2015	0.0	R 29 9	R 39.5	6.3	0.2	0.0	3.5	R 49 4	H18	H (s)	R 7 7	H 88 9	R 89.8 R 87.7 R 77.0	(s)	H 466 1
2016 2017	0.0 0.0	R 30.8 R 36.4	32.5 35.2	6.7 6.9	0.7 0.4	0.0 0.0	3.6 3.7	R 43.5 46.2	R 1.7 P 1.8	R 0.2 R 1.6	R 8.8 R 8.7	R 85.0 R 94.7	H 87.7 R 77.0	(s) 0.1	R 461.6 R 466.9
2017	0.0	R 37.6	37.4	6.5	0.4	0.0	3.6	R 48.0	H18	H 2 0	H a 1	R 98.5	n 67 4	0.1	R 466.9 R 465.4 R 483.9
2019	0.0	R 35 3	37.4 R 37.6	7.0	0.9	0.0	3.5	49 N	H18	Ro1	R 8.7 R 9.5	R 96 9	R 68.0 R 73.6	0.0	R 483.9
2020 2021	0.0 0.0	R 32.4 R 27.3	R 31.1 R 32.3	6.8 6.8	0.8 0.5	0.0 0.0	0.8 0.5	R 39.5 R 40.2	R 1.8 R 1.8	R 2.3 R 2.4	R 9.5	R 85.4 R 80.8	73.6 R 89.5	0.0 0.0	R 467.0 R 495.8
2021	0.0	28.5	35.1	6.3	0.5	0.0	3.4	45.1	1.8	2.5	8.3	86.2	99.8	0.0	519.0
						2.0				0	5.0	20.2		2.0	

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Idaho

						Petroleum					Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	699	22	4,072	455	899	6,965	205	887	13,484	(s)					5,573			
1970	353	47	5,600	1,057	960	9,684	277	1,700	19,277	0					10,494			
1980	514 549	49	5,662	993	1,243	11,078	613	1,141	20,730	0					13,707			
1990 2000	623	46 71	7,078 9.041	610 2,045	1,143 880	11,453 15,392	47 2	1,516 3,330	21,845 30,691	0					18,003 22,834			
2005	548	63	10,198	1,512	819	14,806	221	1,991	29,547	0					21,853			
2006	403	66	9,969	1,575	981	15,681	145	2,286	30,637	0					22,762			
2007	504	69	10,014	1,670	903	16,174	37	1,796	30,593	0					23,755			
2008 2009	432 422	76 73	8,605 8,438	1,602 1,417	842	15,616 15,871	0	2,211 1,450	28,876 27,761	0					23,901 22,754			
2010	424	73 71	10,169	1,380	576 1,248	16,488	o 21	1,450	30,853	0					22,798			
2011	389	74	10,476	1,528	1,059	16,042	7	1,452	30,563	0					23,272			
2012	253	75	9,632	1,375	1,060	16,558	3	1,344	29,973	0					23,712			
2013	364	80	9,987	1,705	1,113	16,863	0	1,258	30,927	0					24,208			
2014	352	74	10,584	1,378	1,317	17,160	0	1,288	31,727	0					23,233			
2015 2016	192 107	77 83	11,867 12,293	1,257 1,367	1,293 1,170	18,110 18,769	0	1,737 R 1,225	34,264 R 34,828	0					23,059 23,063			
2017	114	90	11,842	1,582	1,350	19,158	0	R 1,138	R 35,070	0					23,794			
2018	122	88	13,280	1,594	1,473	18,103	5	R 1,115	R 35,570	0					23,754			
2019	101	98	12,883	1,919	1,373	19,044	0	R 1,099	R 36,318	0					23,985			
2020	108	96	12,611	1,867	918	18,385	0	R 1,112	R 34,894	0					24,461			
2021 2022	125 76	95 106	R 12,827 12,710	1,840 2.075	1,456 1.825	19,486 19,364	2	R 1,237 1,152	R 36,847 37,128	0					25,286 26,201			
2022	70	100	12,710	2,073	1,023	19,504		1,132	· · · · · · · · · · · · · · · · · · ·	-					20,201			
									Trillion	Btu								
1960	16.8	22.8	23.7	1.7	4.8	36.6	1.3	5.5	73.6	(s)	11.4	NA NA	NA	NA	19.0	143.6		R 182.0
1970	7.9	49.4	32.6	4.0	5.2	50.9	1.7	10.7	105.2	0.0	11.5				35.8			R 283.1
1980	9.6	51.6	33.0	3.6	6.8	58.2	3.9	7.2	112.7	0.0	14.6				46.8		R 99.5 R 78.7	R 334.8
1990 2000	10.1 13.7	46.8 72.7	41.2 52.6	2.3 7.7	6.3 5.0	60.2 80.1	0.3 (s)	9.9 21.9	120.1 167.3	0.0	22.3 26.9				61.4 77.9		R 106.1	R 340.8 R 466.2
2005	11.3	66.5	59.3	5.7	4.6	76.9	1.4	13.0	160.9	0.0	32.6				74.6		R 105.6	R 453.0
2006	8.2	69.2	57.9	5.9	5.6	81.3	0.9	14.9	166.5	0.0	30.3				77.7	353.4	R 94.4	R 447.8
2007	10.3	71.1	57.9	6.2	5.1	83.2	0.2	11.7	164.3	0.0	31.6				81.1	360.0		H 475.6
2008	8.6	77.8	49.7	6.1	4.8	79.7	0.0	14.5	154.8	0.0	30.5				81.6		R 111.1	R 468.1
2009 2010	8.4 8.5	74.3 72.5	48.7 58.7	5.4 5.3	3.3 7.1	80.8 83.5	0.1 0.1	9.4 10.0	147.7 164.8	0.0	24.2 28.0				77.6 77.8		R 93.7 R 99.1	R 428.1 R 455.5
2010	7.8	75.6	60.4	5.9	6.0	81.2	(s)	9.4	163.0	0.0	23.2				77.6		R 67.6	R 421 5
2012	5.2	76.6	55.5	5.3	6.0	83.8	(s)	8.7	159.4	0.0	21.9			(s)	80.9			R 427.5
2013	8.0	82.0	57.6	6.6	6.3	85.3	0.0	8.1	163.8	0.0	22.6			R (s)	82.6			H 455.2
2014	7.5	75.0	61.0	5.3	7.5	86.8	0.0	8.3	168.9	0.0	23.1	3.6			79.3		R 86.0	R 444.8
2015	4.2 2.4	79.8	68.4	4.8 5.3	7.3	91.6	0.0	11.3	183.4	0.0	R 31.2 R 30.1	3.5			78.7	R 382.4 R 388.5	R 85.4 R 75.0	R 467.8 R 463.6
2016 2017	2.4	86.7 94.6	70.8 68.2	5.3 6.1	6.6 7.7	94.9 96.8	(s) 0.0	7.9 7.3	185.4 186.0	0.0	32.8				78.7 81.2		R 66.6	R 468.9
2017	2.8	91.6	76.5	6.1	8.4	91.5	(s)	R 7.2	189.6	0.0				R 0.1	81.0		R 61.8	R 467.3
2019	2.4	101.2	74.2	7.4	7.8	96.2	0.0	<sup>R</sup> 7.1	192.6	0.0	35.5	3.5		R <sub>0.2</sub>	81.8	R 418.7	R 66.6	<sup>R</sup> 485.3
2020	2.7	98.3	72.6	7.2	5.2	92.9	0.0	R 7.2	R 185.0	0.0	R 28.9			R <sub>0.3</sub>	83.5	R 401.0	R 67.5	H 468.5
2021	3.1	97.3	R 73.9	7.1	8.3	98.4	(s)	7.9	R 195.6	0.0	R 30.4				86.3		R 81.7	R 496.7
2022	1.9	108.5	73.3	8.0	10.3	97.8	(s)	7.4	196.7	0.0	33.3	3.4	1.5	0.6	89.4	435.4	84.5	519.9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Idaho

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>©</sup>	Kerosene	Total				Electricity <sup>9</sup>	-	Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total e,h
1960	279	2	663	269	0	932				1 463			
1960 1965 1970 1975	279 200 102 57	5	663 708	269 299	Ö	932 1,007				1,463 1,779			
1970	102	8	837 972	610	0	1.447				2,354			
1975	57	14	972	611	0	1,583				2,354 3,870			
1980	24	7	485 569 535 440	271 281	0	756 851				4,936 5,780			
1985 1990	10	8	569	281 273	1	851				5,780			
1990 1995	12 5	9	535	273 321	5 15	814 776				5,626 6,193			
2000	2	13 19 22 22 23 28	306	1,252	10	1,658				7,006			
2005	1	22	396 392 373 248 228	850	5	1,177				7,601			
2006	i	22	373	850 894	3	1,271				8,057			
2007	4	23	248	875	2	1,125				8,339			
2008	0	28	228	962	1	1.191				8.540			
2009 2010	0	26	171 157	1,064 1,020	2	1,237 1,178				8,554 8,137			
2010	0	26 24 27	157	1,020	2	1,178				8,137			
2011	0	27	182	1,039	1	1,222				8,390			
2012 2013	0	24 27	142 131	835 1,263	1	977 1,395				8,159 8,619			
2013	0	27	131	1,263	(s)	1,395				8,619			
2015	0	23	127 124	921 797	(5)	921				0,133 8,055			
2016	0	25 23 25	128	838	(s)	967				8,135 8,055 8,172			
2017	Ö	29	113 88 68 88 R 121	1.094	(s)	1,207 1,091 1,454				8.728			
2017 2018	Ö	29 27	88	1,094 1,002	1	1,091				8,728 8,428			
2019	0	31	68	1,384	2	1,454				8,697			
2020	0	31	_ 88	1,116	1	_ 1,205				8,971			
2021	0	31	n 121	1,285	1	R 1,407				9,301			
2022	0	36	131	1,562	1	1,693				9,964			
							Trillion Btu						
1960	6.9	2.3 5.2 8.2	3.9	1.0	0.0	4.9	5.6	NA	NA	5.0	24.6	R 10.1	R 34.7 R 37.4 R 45.2 R 67.5
1965	4.9	5.2	4.1	1.1	0.0	5.3 7.2	4.0	NA	NA	6.1	25.5	H 11.9	H 37.4
1965 1970 1975	2.4	8.2 14.9	4.9 5.7	2.3 2.3	0.0 0.0	7.2 8.0	4.0 2.9 3.2	NA	NA	8.0 13.2	25.5 28.8 40.6	n 16.5	n 45.2
1000	1.3	7.8	5.7	2.3 1.0	0.0	8.0	3.2	NA NA	NA NA	13.2	40.6 31.9	R 11.9 R 16.5 R 27.0 R 35.8 R 40.1 R 24.9 R 32.5 R 36.7 R 33.4	1167.5 B 67.7
1980 1985	0.5 0.2	8.1	2.8 3.3	1.0	(s)	3.9 4.4	2.9 4.4	NA NA	NA NA	16.8 19.7	36.9	R 40 1	R 67.7 R 77.0
1990	0.3	8.8	3.1			4.4	2.0	0.1		19.2	34.6	R 24 6	R 59.2 R 65.6 R 85.7 R 98.8 R 97.3 R 106.0
1990 1995	0.1	13.4	3.1 2.6	1.0 1.2	(s) 0.1	3.9	2.1	0.1	(s) (s)	21 1	40.7	R 24.9	R 65.6
2000	(s)	19.6	2.3 1.9 2.2 1.4	4.8	0.1	4.2 3.9 7.2 5.2	2.0 2.1 2.4	0.1	(s)	23.9 25.9 27.5 28.5	53.2	R 32.5	R 85.7
2005	(s)	22.7	1.9	3.3	(s)	5.2	8.1	0.1	(s)	25.9	62.1	R 36.7	R 98.8
2006 2007	(s)	23.5 24.0	2.2	3.4 3.4	(s)	5.6 4.8	7.2 8.0	0.1	(s)	27.5	63.9 65.4	H 33.4	R 97.3
2007	0.1	24.0	1.4	3.4	(s)	4.8	8.0	0.1	(s)	28.5	65.4	P 40.6	n 106.0
2008	0.0	28.2	1.3	3.7	(s)	5.0	8.9	0.1	(s)	29.1	71.4	R 39.7	□ 111.1 Book
2009 2010	0.0 0.0	26.1 24.5	1.0 0.9	4.1 3.9	(S)	5.1 4.8	3.9 4.1	0.1 0.1	(s) (s)	29.2 27.8	64.4 61.4	R 25.4	H 99.6
2010	0.0	24.3	1.1	3.9 4.0	(8)	4.0 5.0	4.0	0.1		27.0	65.0	R 24 4	R 80.7
2011 2012	0.0 0.0	27.1 24.3	0.8	4.0 3.2	\s\ s\	5.0 4.0	3.4	0.1	(s) (s)	28.6 27.8 29.4	65.0 59.7	R 27 2	R 86.8
2013	0.0	28.1	0.8	4.9	(s)	5.6	4.4	0.1	(s)	29.4	67.6	R 32.6	R 100.2
2014 2015	0.0	25.1 24.3	0.7 0.7	3.5	(s)	4.3 3.8	4.4 4.4	0.1	(0)	27.8 27.5	61.7 R 67.7	R 35.2 R 35.4 R 24.4 R 27.2 R 32.6 R 30.1 R 29.8 R 26.6 R 24.4	R 111.1 R 99.6 R 96.7 R 89.4 R 86.8 R 100.2 R 91.8 R 97.6
2015	0.0	24.3	0.7	3.1	(s)	3.8	_ 12.0	0.1	R (s)	27.5	R 67.7	R 29.8	R 97.6
2016 2017	0.0	26.0 30.1	0.7 0.7	3.2 4.2	(s)	4.0 4.9	12.0 R 11.1 R 12.6 R 14.1	0.1	H (s)	27.9 29.8	69.2 P 77.6	H 26.6	H 95.7
2017	0.0	30.1		4.2	(s)	4.9	n 12.6	0.1	0.1 P 0.1	29.8	<sup>n</sup> 77.6	n 24.4	n 102.0
2018	0.0 0.0	28.6 31.8	0.5 0.4	3.8 5.3	(S)	4.4	'' 14.1	0.1 0.1	R 0.1	28.8	R 76.1	1121.9 B 24.4	1198.0 B 107.5
2019 2020 2021	0.0	31.8	0.4	5.3	(8)	5.7 ΛΩ	15.8 R g s		R 0.2	29.7 30.6	R 76 0	R 24.1	H 107.5
2020	0.0 0.0	31.5 31.4	0.5 0.7	4.3 4.9 6.0	(s)	5.7 4.8 5.6 6.8	15.8 R 9.6 R 10.3	0.1 0.1	R 0.3 R 0.4 0.5	29.7 30.6 31.7	R 83.3 R 76.9 R 79.6	R 24.1 R 24.7 R 30.0	R 95.7 R 102.0 R 98.0 R 107.5 R 101.6 R 109.6 123.3
		36.9	0.8		(s)		12.9	0.1	U. T	34.0	91.2	32.1	

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Idaho

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	194	3	232	100	102	45	0	480	NA			NA	1,261			
1965 1970	151 80	5	248 294	111 227	500 116	45 52 65	0	911 701	NA NA			NA NA	1,290 2,088			
1975	132	12	341	227	81	90	0	739	NA			NA	3,530 3,973			
1980 1985	132 89 36	6 9	218 328	101 104	0	100 134	487 25	739 905 595	NA NA			NA NA	3,973 4,592			
1990	48	9	344	102	1	148	25 19	614	NA 0			(s)	5,212			
1995	34	10	392	119	3	38	4	557	0			(s)	5,584			
2000	17 12	13 13	432 336 286	466 347	2 4	32 16 52	0	931 703 664	0			(s)	7,420 5,615			
2005 2006	11	14	286	324	2	52	ŏ	664	ŏ			(s)	5,813			
2007 2008	40	14 16	257 224	340 376	1	21 71	0	619 671	0			(s)	6,015 6,049			
2008	8	16	250	237	(s) 1	27	0	514	0			(s) (s)	6,005			
2010	9	15	390	252 259 375	(s)	22 24	2	667	0			(s)	5,865			
2011 2012	/ 5	17 16	413 374	259 375	(s) (s)	24 42	3 2	699 794	0			(s)	5,969 5,978	 		
2013	4	18	360 367	282	(s)	51	ō	693	Ŏ			2	6,250			
2014 2015	2	17 17	367 338	327 322	(s) (s)	55 351	0	749 1,011	0			2	6,128 6,264			 
2016	0	18	433 368	399 333	(s)	315	0	1,147	0			3	6,279			
2017	0	20	368	333	(s)	320	0	1,021	0			4	6,421			
2018 2019	0	19 21	399 527	399 392	(s)	327 329	0	1,126 1,248	0			5 6	6,437 6,441			
2020	Õ	20	559	532	1	332	Õ	1 423	Ō			8	6,310			
2021 2022	0	20 23	R 384 408	413 376	(s) (s)	335 430	0	R 1,133 1,215	0			10 12	6,600 6,837			
LOLL			400	070	(0)	400		· · · · · ·	lion Btu				0,007			
1960	18	2.0	1.4	0.4	0.6	0.2	0.0	2.6	NA	0.1	NA	NA	13	14.7	R 8.7	R 23 3
1960 1965 1970	4.8 3.7	2.9 5.4 6.2	1.4	0.4	2.8 0.7	0.3	0.0	2.6 5.0	NA	0.1	NA	NA	4.3 4.4	18.6	R 8.7	R 23.3 R 27.2
1970 1975	1.9 3.0	6.2 12.8	1.7 2.0	0.9 0.9	0.7 0.5	0.3 0.5	0.0 0.0	3.6 3.8	NA NA	0.1 0.1	NA NA	NA NA	7.1 12.0	18.9 31.7	R 14.6 R 24.6	R 33.5 R 56.3
1975	2.0	6.1	1.3	0.9	0.0	0.5	3.1	5.2	NA NA	0.1	NA NA	NA NA	13.6	26.9	Roas	R 55.8
1985	0.8	9.4	1.9	0.4	(s)	0.7	0.2	3.2	NA	0.1	NA	NA	15.7	29.2	R 31.8 R 22.8 R 22.5 R 34.5	R 61.1
1990 1995	1.1 0.7	8.8 10.7	2.0 2.3 2.5	0.4 0.5	(s) (s)	0.8 0.2	0.1	3.3 3.0	0.0 0.0	0.2 0.3	0.2 0.2	(s) (s)	17.8 19.1	31.3 33.9	R 22.8	R 54.1 R 56.4
2000	0.4	13.7	2.5	1.8	(s)	0.2	(s) 0.0	4.5	0.0	0.4	0.5	(s)	25.3	44.8	R 34.5	R 56.4 R 79.2
2005	0.2	13.9	2.0	1.3	(s)	0.1 0.3	0.0 0.0	3.4	0.0 0.0	1.3 1.2	0.6	(s)	19.2	38.7 39.3	H 27 1	R 65.8 R 63.4
2006 2007	0.2 0.9	14.2 14.6	1.7 1.5	1.2 1.3	(s) (s)	0.3	0.0	3.2 2.9	0.0	1.3	0.6 0.6	(s) (s)	19.8 20.5	40.8	R 24.1 R 29.3 R 28.1 R 24.7	R 70 1
2008	0.9 0.2 0.2	16.7	1.5 1.3	1.4 0.9	(s)	0.4	0.0	2.9 3.1	0.0	1.4 0.5	0.5 0.5	(s)	20.6	42.5	R 28.1	R 70.7
2009 2010	0.2 0.2	16.1 15.4	1.4 2.3	0.9 1.0	(s) (s)	0.1 0.1	0.0 (s)	2.5 3.4	0.0 0.0	0.5 0.5	0.5 0.5	(s) (s)	20.5 20.0	40.3 40.0	R 24.7 R 25.5	R 65.1 R 65.5
2011	0.2	17.2	2.4	1.0	(s)	0.1	(s)	3.5	0.0	0.5	0.6	(s)	20.4	42.4	R 17.3	R 59.7
2012	0.1	16.1	2.2	1.4	(s)	0.2 0.3	(s) (s) 0.0	3.8	0.0	0.5 0.5	0.6	(s)	20.4	41.5 44.9	R 10 0	R 61 4
2013 2014	0.1 (s)	19.0 17.3	2.1 2.1	1.1 1.3	(s)	0.3	0.0	3.4 3.6	0.0 0.0	_ 0.6	0.6 0.6	(s) (s)	21.3 20.9	44.9 43.1	R 23.6 R 22.7 R 23.2	R 68.6 R 65.8
2015	(s) 0.0	17.3	1.9	1.2	(s)	1.8	0.0	5.0	0.0	<sup>R</sup> 1.8	0.6	(s)	21.4	46.1	R 23.2	H 69.3
2016 2017	0.0 0.0	18.4 20.7	2.5 2.1	1.5 1.3	(s)	1.6 1.6	0.0 0.0	5.6 5.0	0.0 0.0	2.1 2.4	0.6 0.6	(s) (s)	21.4 21.9	R 48.1 50.7	R 20.4 R 18.0	R 68.6 R 68.6
2018	0.0	19.9	2.3	1.5	(S) (S)	1.7	0.0	5.5	0.0	22	0.6	(s)	22.0	50.2	H 16 7	H 66.9
2019	0.0	21.7	3.0	1.5	(s)	1.7	0.0	6.2	0.0	2.5 2.5	0.6	R (s)	22.0	53.0 B 52.1	R 17.9 R 17.4	R 70 a
2020 2021	0.0 0.0	20.5 20.8	3.2 2.2	2.0 1.6	(s) (s)	1.7 1.7	0.0 0.0	6.9 5.5	0.0 0.0	2.5 2.6	0.6 0.6	R (s) R (s)	21.5 22.5	R 52.1	P 17.4 R 21.3	R 69.5 R 73.4
2022	0.0	23.8	2.4	1.4	(s)	2.2	0.0	6.0	0.0	2.7	0.6	(s)	23.3	56.4	22.1	78.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Idaho

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	energy losses	Total <sup>f,k</sup>
1960	222	17	2,529	79	930	153	525	4.217	(s)				NA	2,849			
1960 1965 1970 1975	222 321 171	17 23 29 30 32 19 23 34 32 23 23 24 25	2,529 2,768 3,206	146 212	859	153 301	525 771	4,217 4,846 5,630	(s) (s)				NA	4.340			
1970	171	29	3,206	212	626	275	1,311	5,630	0				NA	6,052			
19/5	459 401	30	3,935 2,209	325	801 639	684	988	6,734	0			==	NA NA	5,112			
1980 1985 1990	401 439 489	19	1 568	598 333 187	511	126 61 28	841 674	4,413 3,147 4,652	0				NA NA				
1990	489	23	1,568 2,756	187	511 352	28	1,329	4,652	ŏ				(s)	7,165			
1995	426	34	2.265	291	400	3	2,079	5,038 6,179	0				(s)	7,843 8,408 8,636			
2000	603	32	2,414	307	309	2	3,147 1,782	6,179	0				(s)	8,408			
2005	536	23	2,972	282 316	674 724	221 145	1,782	5,932	0				(s)	8,636			
2006 2007	391 459 423	23	2,395 2,307	428	670	37	2,086 1,595 2,058	5,666 5,037 5,023	0				0	8,891 9,401 9,313			
2008	423	25	2,130	428 218	617	Ö	2,058	5,023	ŏ				ŏ	9,313			
2009	414	24	2,241	99	549	8	1.272	4.170	0				0	8.195			
2010	415	24 25	2,557	101	589	19	1,326	4,592	0				0	8,796			
2011	382	25	2,782 2,360	223 162	607 538	3	1,243	4,858	0				0	8,912 9,574			
2012	360	28	2,319	156	580	0	1,152 1,065	4,212	0				0	9,374			
2012 2013 2014	350	28	2,634	127	531	Ö	1,084	4,212 4,120 4,376	ő				ő	9,338 8,970			
2015	248 360 350 192	30 28 28 32 35 36 35 39	2.264	131	544	0	1.524	4,462 3,936 R 3,685 R 4,022 R 3,354 R 3,813	0				(s)	8 740			
2016 2017	107	35	2,219	123 153	577	4	1,013 R 942	3,936	0				(s)	8,612 8,645			
2017	114 122	36	2,021	153 192	569 581	ō	R 942	n 3,685	0				(s)	8,645 8,889			
2018 2019 2020	101	30	2,329 1,747	141	570	0	R 896	R 3 354	0				1 4	8,8847			
2020	108	38	2,101	214	578	ŏ	Rata	R 3,813	ő				8				
2021	125	38	2,095	140	573	2	R 982	113,792	0				15	9.384			
2022	76	39	2,118	136	620	2	911	3,786	0				31	9,401			
									Trillion Bt	u							
1960 1965	5.0	17.1	14.7	0.3	4.9 4.5 3.3 4.2 3.4	1.0	3.5	24.3 28.2	(s) (s) 0.0	5.7	NA	NA	NA	9.7	61.9	R 19.6	R 81.5
1965	7.2 3.6	24.4	16.1	0.6 0.8	4.5	1.9	5.1	28.2	(s)	6.3	NA NA	NA NA	NA NA		80.8	R 29.1 R 42.3 R 35.6 R 34.8 R 41.8	D 109.9
1970 1975 1980	3.0	30.6 31.6 33.3	18.7 22.9 12.9	0.8	3.3	1.7	8.6 6.5 5.6	33.0 39.1 24.7	0.0	8.5 7.8 11.7	NA NA	NA NA	NΑ	20.6 17.4	96.3 105.1 93.2	R 35.6	R 140 7
1980	9.1 7.1	33.3	12.9	1.1 2.1	3.4	4.3 0.8	5.6	24.7	0.0 0.0	11.7	NA	ŇĀ	NA NA	17.4 16.4	93.2	R 34.8	R 128.0
1985 1990 1995	7.8	20.4	9.1	1.1	2.7	0.4	4.4	17.8 27.5	0.0	13.7 20.0	0.3	NA	NA	20.6 24.4 26.8	80.6	R 41.8	R 122.4
1990	8.7	24.0	16.1	0.6	1.9	0.2	8.8	27.5	0.0	20.0	0.3	0.3	(s)	24.4	105.3	R 31.3 R 31.6	H 136.6
1995	8.1	35.0	13.2 14.0	1.0 1.0	2.1	(s)	13.7 20.8	30.0	0.0	21.6	0.4	0.3 0.8	(s)	26.8	122.1	1131.6 R 20.1	1 153.7 B 177.0
2005	13.3 11.0	33.3 24.1	17.3	1.0	1.6 3.5	(s) 1.4	11.8	37.6 34.9	0.0	24.1 23.2	0.3 0.0	0.8	(s) (s)	29.5	123.5	R 39.1 R 41.7	R 165.2
2000 2005 2006	8.0	24.6	13.9	1.1	3.8	0.9	13.8	33.4	0.0	21.9	0.0	0.9	0.0	28.7 29.5 30.3	138.0 123.5 119.0	R 36.9 R 45.7 R 43.3 R 33.8 R 38.2	R 155.9
2007	9.2	24.7	13.3	1.5	3.4	0.2	10.5	29.0	0.0	22.3	0.1	0.9	0.0	32.1	118.3	R 45.7	R 164.1
2008	8.4 8.3	25.8	12.3	0.7	3.2	0.0	13.6	29.8	0.0	20.3 19.8 23.4	2.0	0.9	0.0	31.8	119.0	H 43.3	H 162.3
2009 2010	8.3 8.3	24.8 24.7	12.9 14.8	0.3 0.4	2.8 3.0	0.1 0.1	8.4 8.7	24.5	0.0 0.0	19.8	0.7 3.3	0.7 0.8	0.0	28.0 30.0	106.8 117.5	H 33.8	1140.6 B 155.7
2010	7.7	25.8	16.0	0.4	3.1	(s)	8.2	28.2	0.0	18.6	3.4	0.8	0.0	30.0	114.9	R 25 9	R 140 8
2011 2012	5.1	25.8 30.2	16.0 13.6	0.9 0.6	2.7	(s)	8.2 7.6	24.6	0.0 0.0	18.1	3.1	0.8	0.0	30.4 32.7	114.5	R 31.9	R 146.3
2013	7.9	28 7	13.4	0.6	2.9	0.0	7.0	23.9	0.0	17.7	3.1	0.8	0.0	31.9	114.5 113.9	R 35.3	R 149.2
2014 2015	7.4 4.2 2.4	28.5 32.8 36.4	15.2 13.0	0.5 0.5 0.5	2.7	0.0	7.1	33.4 29.0 29.8 24.5 27.0 28.2 24.6 23.9 25.5 26.3 22.8 R 21.3	0.0	18.0	3.6 3.5 3.6	0.8	0.0		114.4	R 25.9 R 31.9 R 35.3 R 33.2 R 32.4 R 28.0	R 147.6
2015	4.2	32.8	13.0 12.8	0.5	2.7 2.9	0.0	10.0	26.3	0.0 0.0	17.4 16.9	3.5	0.8 0.8	(s) (s)	29.8	114.9	n 32.4	n 147.2
2016 2017	2.4	36.4 37.6	12.8	0.5	2.9	(s) 0.0	6.6 R 6.2	R 21 3	0.0	16.9	3.6	0.8	(S)	29.4 29.5	112.3 R 113.1	ハンムン	H 137 3
2018	2.8	36.2	13.4	0.7	2.9	(s)	6.0	23.1	0.0	18.8	3.6	8.0	(s)	30.3	115.7	R 23.1	R 138.8
2019	24	40.0	10.1	0.5	2.9	(s) 0.0	6.0 R 5.9	R 19.4	0.0	17.2	3.5	0.8	_ (s)	30.2	113.3	R 23.1 R 24.6	R 137.9
2020	2.7	39.5 38.7	12.1	0.8	2.9 2.9	0.0	6.0	R 21.9	0.0 0.0	16.9 17.4	0.8	0.8	R (S)	31.3 32.0	_ 113.8	R 25.3 R 30.3	R 81.5 R 109.9 R 138.6 R 140.7 R 128.0 R 128.0 R 153.7 R 177.0 R 165.2 R 165.2 R 164.1 R 162.3 R 140.8 R 144.8 R 147.2 R 147.2 R 147.2 R 147.3 R 147.3 R 147.3 R 137.9 R 137.9 R 137.9
2020 2021 2022	2.7 3.1 1.9	38.7 40.1	12.1 12.1 12.2	0.8 0.5 0.5	2.9 3.1	(s) (s)	R 6.5 6.0	23.1 R 19.4 R 21.9 R 22.0 21.8	0.0	17.4 17.7	0.8 0.5 3.4	0.8 0.8	0.1 0.1	32.0 32.1	113.8 R 114.5 117.8	30.3	H 144.8 148.2
2022	1.9	40.1	12.2	0.5	3.1	(S)	0.0	21.8	0.0	17.7	3.4	0.8	0.1	32.1	117.8	30.3	140.2

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Idaho

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	4	(s)	133 177	648	7	899 870	127	5,990 6,743	52 55	7,856 9,055	0			
1965 1970	1	1	177 154	1,079 1,263	4 9	870 960	128 119	6,743 8,993	55 2	9,055 11,500	0			
1975	(s) (s)	4	120	2,306		950	119	10.396	0	13.912	0			
1980	0	4	120 162	2,306 2,750	21 23	1,243	138	10,396 10,339	Ö	14,655	Õ			
1985 1990	0	3	80 39	2,821 3,443	59 48	1,122 1,143	126 141	10,026 10,952	0	14,234 15,766	0			
1995	ŏ	6	48	4,470	27	1,568	135	13,083	Ö	19,331	ŏ			
2000 2005	0	6	27	5,799	20 33	880	144 122	15,051	0	21,922	0			
2005	0	5 7	78 77	6,568 6,915	33 41	819 981	118	14,116 14,905	0	21,735 23,037	0			
2007	ŏ	8	76	7.201	41 27	903	122	15.483	ŏ	23.812	ŏ			
2008 2009	0	7	38 73	6,023 5,776	46 18	842 576	114 102	14,927 15,295	0	21,990 21,840	0	 		
2010	0	8	75	7.065	7	1.248	145	15,295	0	24,416	0			
2011	Õ	5	70 65	7,100	7	1,059	137 127	15,412	Õ	23,784	Õ			
2012 2013	0	6 6	65 57	6,756 7,177	4 5	1,060 1,113	127	15,978 16,232	0	23,989 24,720	0			
2013	0	4	63	7,177	4	1,317	135 141	16,574	0	25,555	0			
2015	0	5	63 43	9,142	6	1,293	170	17,215	0	27,869	0			
2016 2017	0	6	44 42	9,513 9,340	6 2	1,170 1,350	R 167 R 154	17,877 18,269	0	R 28,778 R 29,157	0			
2018	ŏ	7	50	10,464	1	1,473	R 149 R 148	17,195	ő	H 29.331	ő			
2019	0	8	54	10.540	3	1,373	R 148	18,145	0	n 30 261	0			
2020 2021	0	6	44 42 50 54 52 52 54	9,863 R 10,226	5 1	918 1,456	R 139 R 147	17,475 18,577	0	R 28,453 R 30,514	0			
2022	ő	8	54	10,053	2	1,825	153	18,314	Ö	30,434	Ö			
							Tri	llion Btu						
1960 1965	0.1	0.5	0.7	3.8 6.3 7.4	(s)	4.8	0.8	31.5	0.3	41.9	0.0	42.4	0.0	42.4
1965	(s) (s)	1.1 4.5	0.9 0.8	6.3	(s)	4.7	0.8 0.7	35.4 47.2	0.3	48.4 61.3	0.0 0.0	49.5 65.8	0.0 0.0	49.5
1970 1975	(s)	4.5	0.6	13.4	(s) (s) 0.1	4.7 5.2 5.2	0.7	54.6	(s) 0.0	74.6	0.0	79.1	0.0	65.8 79.1
1980	0.0	4.4	0.8	16.0	0.1	6.8	0.8	54.3 52.7 57.5	0.0	78.9	0.0	83.3	0.0	83.3 79.8 90.9
1985 1990	0.0	3.1 5.2 6.6	0.4 0.2	16.4 20.1	0.2 0.2	6.1 6.3	0.8	52.7 57.5	0.0 0.0	76.6 85.1	0.0 0.0	79.8 90.9	0.0 0.0	/9.8 on o
1995	0.0 0.0	6.6	0.2	26.0	0.1	8.6	0.9 0.8	68.1	0.0	85.1 103.9	0.0	110.5	0.0	110.5
2000	0.0	6.1	0.1	33.7	0.1	5.0	0.9	78.3	0.0	118.1	0.0	124.2	0.0	124.2
2005 2006	0.0 0.0	5.7 6.9	0.4 0.4	38.2 40.1	0.1 0.2	4.6 5.6	0.7 0.7	73.3 77.3	0.0 0.0	117.4 124.2	0.0 0.0	123.1 131.2	0.0 0.0	123.1 131.2
2007	0.0 0.0	7.8 7.1	0.4 0.2	41.7	0.1	5.1 4.8	0.7	79.6 76.2	0.0 0.0	127.6	0.0	135.5 124.0	0.0 0.0	135.5 124.0
2008 2009	0.0 0.0	7.1	0.2 0.4	34.8 33.4	0.2 0.1	4.8	0.7 0.6	76.2 77.9	0.0 0.0	116.9 115.5	0.0 0.0	124.0 122.8	0.0 0.0	124.0 122.8
2010	0.0	7.3 7.9	0.4	40.8	(s)	3.3 7.1	0.9	80.4	0.0	129.6	0.0	137.5	0.0	137.5
2011	0.0	5.4	0.4	41.0	(s)	6.0	0.8	78.0	0.0	126.2	0.0	131.6	0.0	131.6
2012 2013	0.0 0.0	6.0 6.2	0.3 0.3	39.0 41.4	(s) (s)	6.0 6.3	0.8 0.8	80.9 82.1	0.0 0.0	127.0 130.9	0.0 0.0	132.9 137.2	0.0 0.0	132.9 137.2
2014	0.0	4.1	0.3	43.0	(s)	7.5 7.3	0.9	83.9	0.0	135.5	0.0	139.6	0.0	139.6
2015	0.0	5.3	0.2	52.7	(s) (s)	7.3	1.0	87.1	0.0	148.3	0.0	153.7	0.0	153.7
2016 2017	0.0 0.0	6.0 6.2	0.2 0.2	54.8 53.8	(s) (s)	6.6 7.7	1.0 0.9	90.4 92.3	0.0 0.0	153.0 154.9	0.0 0.0	159.0 161.1	0.0 0.0	159.0 161.1
2018	0.0	6.9	0.2	60.3	(s)	8.4	0.9	86.9	0.0	156.7	0.0	163.5	0.0	163.5
2019	0.0	7.8	0.3	60.7	(s)	7.8 5.2	0.9	91.7	0.0	161.3	0.0	169.1	0.0	169.1
2020	0.0 0.0	6.8 6.4	0.3	56.8 R 58.9	(s)	5.2 8.3	0.8	88.3 93.8	0.0	151.4 R 162.5	0.0 0.0	158.2 R 168.9	0.0	158.2 R 168.9
2021 2022	0.0	6.4 7.7	0.3 0.3	58.0	(s) (s)	8.3 10.3	0.9 0.9	93.8 92.5	0.0 0.0	R 162.5 162.2	0.0	R 168.9 169.9	0.0 0.0	R 168.9 169.9

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Information Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Idaho

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	0	0	(s)	0	0	(s) (s)	0	6,165		0	NA	NA	0	
1965	Ō	0	(s) (s)	0	0	(s)	0	6,641		0	NA	NA	-1	
1970	0	,0	1	0	0	1	0	7,076		0	NA	NA	-1	
1975 1980	0	(s) (s)	5	0	0	5	0	10,274 9,507	 	0	NA NA	NA NA	0	
1985	0	(s)	(s)	0	0	(s)	0	10,863		0	NA O	0	56	
1990	Ŏ	0	2	ŏ	0	2	ŏ	9,115		ő	Õ	ő	106	
1995	Ŏ	Ö	ī	Ŏ	Ŏ	ī	ŏ	10 080		Ő	ő	Ö	3	
2000 2005	0	2	5	0	0	5	0	10,967 8,542		0	0	0	126 89	
2005	0	11	(s)	0	0	(s)	0	8,542		0	0	0	89	
2006	0	10	(s)	0	0	(s)	0	11 242		0	0	170	40 44	
2007 2008	0	13 13	(s)	0	0	(s) (s)	0	9,022 9,363		86	0	170 172 207	-34	
2008	0	13	(5)	0	0	(s)	0	10,434		76	0	313	-3 <del>4</del> -44	
2010	0	13 12	(s)	ő	0	(s)	0	9,154		76 72	0	441	-24	
2011	Ō	8	(s)	0	0	(s)	Ō	13,405		63 75	0	1,307	-17	
2012	0	14	(s)	0	0	(s)	0	10,940		75	0	313 441 1,307 1,891 2,460 2,806	14	
2013	0	25 18	(s)	0	0	(s)	0	8,473 9,002		40	0	2,460	-8	
2014 2015	0	18	(S)	0	0	(s) (s)	0	9,002		79 76	0	2,806	-12 14	
2015	0	28 23	(S) (S)	0	0	(S) (S)	0	8,757 9,033		76 72	30	2,270 2,578	11	
2017	0	21	(s)	0	0	(s)	0	10.670		84	450	2.545	15	
2018	Ŏ	24	(s)	Ŏ	Ŏ	(s)	ŏ	11.024		83	556	2.655	23	
2019	0	24 31	(s)	0	0	(s)	0	11,024 10,333		96	555	2,655 2,551	0	
2020	0	30	(s)	0	0	(s)	0	9 508		91	563	2,771	0	
2021 2022	0	37 33	(s) (s)	0	0	(s) (s)	0	7,995 8,360		93 91	556 555 563 562 530	2,680 2,442	0	
2022	U	33	(5)	U	U		Trillion Btu	0,300		31	550	2,442	U	
1960			(-)	0.0	0.0			B od o		0.0	NA	NA	0.0	Bot o
1960	0.0 0.0	0.0 0.0	(s) (s)	0.0 0.0	0.0 0.0	(s) (s)	0.0 0.0	R 21.0 R 22.7 R 24.1 R 35.1 R 32.4 R 37.1	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 (s) (s) 0.0	R 21.0 R 22.7
1970	0.0	0.0	(s)	0.0	0.0	(s)	0.0	R 24.1	0.0	0.0	NA NA	NA NA	(5)	R 24 1
1970 1975	0.0	(s)	(s)	0.0 0.0	0.0 0.0	(s)	0.0 0.0	R 35.1	0.0 0.0 0.0	0.0 0.0	NA	NA	0.0	R 35.1
1980	0.0	(e)	(s)	0.0	0.0	(s)	0.0	R 32.4	0.0	0.0	NA	NA	0.0	R 32.5
1985 1990 1995	0.0	(s)	(s)	0.0	0.0	(s)	0.0	H 37.1	0.0	0.0	0.0	0.0	0.2 0.4	H 37.3
1990	0.0 0.0	0.0	(s)	0.0 0.0	0.0 0.0	(s)	0.0 0.0	<sup>n</sup> 31.1	1.2 1.3 0.7	0.0 0.0	0.0 0.0	0.0 0.0	0.4	n 32.7
2000	0.0	1.0	(S) (S)	0.0	0.0	(S) (S)	0.0	37.5 R 37.4	1.3	0.0	0.0	0.0	(S)	30.0 R 40.4
2000 2005	0.0	(s) 0.0 0.0 1.8 11.7	(s)	0.0	0.0	(s)	0.0	R 31.1 R 37.5 R 37.4 R 29.1 R 38.4 R 30.8 R 31.9 R 35.6 R 31.2 R 45.7	1.5	0.0	0.0	0.0	(s) 0.4 0.3 0.1	R 24.1 R 35.1 R 32.5 R 37.3 R 32.7 R 38.8 R 40.6 R 42.6 R 50.4
2006	0.0	9.9 12.8 12.7	(s)	0.0	0.0	(s)	0.0	R 38.4	1.5 1.5	0.0	0.0	0.0 R 0.6	0.1	R 50.4
2007 2008	0.0 0.0	12.8	(s)	0.0 0.0	0.0 0.0	(s)	0.0 0.0	R 30.8	1.4	0.0 P 0.3	0.0	R 0.6 R 0.7 R 1.1 R 1.5 R 4.5	0.2 -0.1	R 45.7 R 46.8
2008	0.0	12.7	(s)	0.0	0.0	(s)	0.0	H 31.9	1.3	H 0.3	0.0	H 0.7	-0.1	H 46.8
2009	0.0 0.0	12.8 12.6	(s)	0.0	0.0	(s)	0.0 0.0	n 35.6	1.5 1.7	R 0.3 R 0.2	0.0	n 1.1	-0.2	R 51.1 R 47.2 R 60.5
2010 2011	0.0	8.4	(s) (s)	0.0 0.0	0.0 0.0	(s) (s)	0.0	N 31.2	1.7	R 0.2	0.0 0.0	11.5 R 4 5	-0.1 -0.1	H 47.2
2011	0.0	13.8	(5)	0.0	0.0	(5)	0.0	R 37 3	1.0	R 0.2	0.0	R65	-U. I	R 60.3
2012 2013	0.0 0.0	13.8 25.1	(s)	0.0 0.0	0.0 0.0	(s)	0.0 0.0	R 28.9	2.3 3.4	R 0.1	0.0	R 8.4	(s) (s)	R 66.0
2014 2015	0.0 0.0	18.6	(s)	0.0	0.0	(s)	0.0	R 37.3 R 28.9 R 30.7 R 29.9 R 30.8	9.3 8.3 2.4	R 0.3 R 0.1 R 0.3	0.0	R 6.5 R 8.4 R 9.6 R 7.7 R 8.8		R 60.2 R 66.0 R 68.4 R 74.3 R 66.0
2015	0.0	28.1 23.6	(s)	0.0	0.0	(s)	0.0	H 29.9	8.3	R 0.3 R 0.2	0.0	H 7.7	(s) (s)	H 74.3
2016	0.0	23.6	(s)	0.0	0.0	(s)	0.0	H 30.8	2.4	H 0.2	H 0.1	H 8.8	(s)	H 66.0
2017 2018	0.0 0.0	21.3 24.2 32.0	(s)	0.0 0.0	0.0 0.0	(s) (s)	0.0 0.0	n 36.4 B 27.6	2.4 2.2	R 0.3 R 0.3	<sup>□</sup> 1.6	R 8.7 R 9.1	0.1 0.1 0.0	R 70.7 R 75.4
2018	0.0	24.2 30 N	(S)	0.0	0.0	(S) (S)	0.0	R 25.2	2.2	U.3 R n 3	1.9 R 1 Q	Rg7	0.1	H 80 4
2020	0.0	31.0	(s)	0.0	0.0	(s)	0.0	R 32.4	2.2	R 0.3 R 0.3	R 1.9	R 9.5	0.0	R 77.3
2021	0.0	37.9	(s)	0.0	0.0	(s)	0.0	R 36.4 R 37.6 R 35.3 R 32.4 R 27.3 28.5	2.2 2.2 2.0 1.7	R 0.3	0.0 R 0.1 R 1.6 R 1.9 R 1.9 R 1.9	R 9.5 R 9.1 8.3	0.0 0.0	R 77.3 R 78.5 74.1
2022	0.0	33.4	(s)	0.0	0.0	(s)	0.0	28.5	1.7	0.3	1.8	8.3	0.0	74.1

a Includes supplemental gaseous fuels that are commingled with natural gas.

Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Illinois

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	<b>HGL</b> <sup>ℂ</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				Mi	llion kilowatthour	3	Thousan	d barrels
1960	39,673	518	42,592	14,958	4,356	78,026	26,533	32,744	199,209	254	185	0	NA	NA
1965	44.714	757	42,392	18.763	12.176	88.769	23.091	37.558	221.369	965	175	0	NA NA	NA NA
1970	42,136	1,174	44,495	28,481	22,644	107,084	27,949	42,055	272,709	2,514	166	0	NA	NA
1971 1972	39,175 39,798	1,229 1,207	49,502 53,936	29,013 32,971	24,037 27,844	108,295 113,860	23,909 30,007	39,484 43,256	274,241 301,875	4,374	136 150	0	NA NA	NA NA
1972	41,485	1,207	52,984	34,254	29,099	119,028	30,034	48,446	313,846	13,067 20,051	129	0	NA NA	NA NA
1974	41,258	1 149	52,683	35,429	25,177	115,828	29,441	44,762	303,320	19,592	124	ŏ	NA	NA
1975	40,374	1,095	51,249	35,135	24,769	118,637	28,142	42,047	299,978	22,315	122	0	NA	NA
1976 1977	40,901 40,772	1,175 1,167	57,267 57,019	39,716 39,432	25,516 27,132	122,716 124,746	24,862 27,370	40,914 42,380	310,990 318,078	26,455 28,547	130 129	0	NA NA	NA NA
1977	39,969	1,175	59,277	39,467	27,132	130,532	29,627	44,249	330,288	32,926	129	0	NA NA	NA NA
1979	40,204	1,143	48,668	51,784	24,334	119,113	29,176	43,502	316,576	27,463	130	Ö	NA	NA
1980	40,147	1,090	36,704	38,811	19,664	109,062	28,271	38,749	271,262	27,742	138	0	NA	NA
1981 1982	37,523 36,572	1,062 994	34,511 32,568	34,147 26,872	16,928 16,642	107,296 105,170	20,791 15,466	24,785 22,720	238,458 219,438	29,483 27,625	134 124	0	142 597	NA NA
1983	39.881	938	34,788	27,037	15,944	106.955	13,700	26.582	225.005	28,021	134	0	558	NA
1984	38,394	1,033	37,278	26,069	2,687	105,079	9,845	26,692	207,649	34,976	141	0	1,260	NA
1985	37,706	962	32,585 35,437	27,168	2,748	111,114	6,508	26,726	206,850 212,217	39,106	136 141	0	2,040	NA
1986 1987	37,176 35,648	924 873	35,437 35,611	32,529 41,884	2,054 1,997	108,641 110,508	8,316 6,964	25,241 27,547	212,217	42,614 50,194	141	0	2,794 3,266	NA NA
1988	34,006	965	34,363	45,341	3,956	116,048	5,908	29,272	234,887	69,166	65	ő	3,419	NA
1989	32,457	996	35,552	12,389	4,497	115.548	4,027	31.907	203,921	74,820	100	0	3,696	NA
1990	33,904	940 988	43,227 35,899	12,471	3,952 6,437	105,948 104,380	3,594 3,448	33,271	202,463 194,821	71,887	144 134	0	3,278	NA NA
1991 1992	34,677 31,599	988 994	35,899	14,539 12,482	6,437 7,399	104,380	2,349	30,118 34,528	194,821	71,866 73,742	134	0	3,620 4,162	NA NA
1993	38,135	1,031	37,544	21,649	9,170	109,587	2,273	30,279	210,503	78,373	130	ŏ	4,123	NA
1994	39,077	1.025	31.762	24.708	9,619	111,255	2.701	33.101	213.146	72.654	121	0	5.147	NA
1995 1996	39,623 44,431	1,078 1,119	35,309 37,003	25,822 25,109	10,360 12,076	111,207 111,554	1,457 1,996	31,521 34,996	215,677 222,734	78,481 69,774	124 106	0	4,321 3,136	NA NA
1996	47,638	1,119	37,494	24,777	12,076	113,343	1,430	34,293	223,839	51,069	97	0	4,562	NA NA
1998	46,067	957	40,520	15,783	13,164	113,707	1,046	35,550	219,770	55,596	138	ŏ	5,405	NA
1999	46,719	1,004	43,362	22,588	18,245	118,810	535	38,335	241,875	81,744	142	0	5,740	NA
2000 2001	51,865 50,671	1,031 952	42,945 42,195	20,131 18,346	22,699 18,664	119,985 121,126	1,144 3,176	32,917 31,149	239,822 234,657	89,438 92,358	144 144	0	6,907 7,879	NA 43
2001	53,619	1,050	39,798	20,185	13,583	122,661	3,176	32,636	229,255	90,860	129	0	7,879	69
2003	54,751	998	48,144	15.477	13,365	122,747	2.228	33,692	235,653	94,733	139	18	9,425	57
2004	58,523	953 970	46,746	17,553 20,359	21,547 39,525	125,954	1,512 527	32,049	245,361 266,673	92,047	154	.78	9,749	113 382
2005 2006	58,120 58,338	970 894	48,094 49,150	20,359 20,751	39,525 28,578	124,646 125.393	527 257	33,521 32,125	266,673 256,255	93,263 94,154	129 173	141 255	8,739 8,641	1.098
2007	61,099	966	49,130	21,104	29,573	124,277	133	31,070	255,449	95,729	154	664	9,810	1,488
2008	61,891	1 001	47,867	21 174	27,993	119.777	190	31,046	248.047	95,152	139	2.337	12.012	1.277
2009	57,243	956 967	43,601	20,973	24,970	118,031	38 33	27,463	235,076	95,474	136	2,820	11,220	1,354
2010 2011	59,938 58,775	967 987	43,602 46,607	23,049 22,004	28,136 28,005	116,733 111,501	33	26,966 26,006	238,519 234,152	96,190 95,823	119 140	4,454 6,213	11,660 11,138	1,094 3,729
2012	53,390	940	43,712	21,026	26,587	109,553	30 34	25,384	226,295	96,401	111	7,727	11 069	3,497
2013	56,812	1 057	46 336	20 799	27 220	110 220	73	27,163	231 810	97,131	120	9 625	11,353	3 707
2014	56,309	1,094 994	49,464 54,504	23,207	28,254 30,329	110,454 112,845	73 22 16	26,749 27,202	238,150 246,473	97,858 97,282	132	10,083	11,353 11,367 11,352	3,957 4,360
2015 2016	47,274 39.015	994 1.024	54,504 51.546	21,577 21.087	30,329 31.000	112,845 115.636	16 99	27,202 R 27 724	246,4/3 R 247 nga	97,282 98,607	124 133	10,747 10,663	11,352 11,615	4,360 4.124
2017	37,889	1,018	52,852	21,417	31,188	114,915	202	R 27,724 R 27,459	R 247,093 R 248,033	97,191	125	12,268	11,626	4,228
2018	39,107	1,109	54,311	22,763	30,686	113,913	141	H 26 672	H 248.486	98.102	147	11,899	11.407	4.345
2019	32,721	1,154	51,177	25,612	31,317	110,394	114	R 27,556	R 246,171	98,735	124	14,460	11,267	4,094
2020 2021	21,288 R 28,808	1,131 R 1,065	48,577 R 48.491	25,194 25,294	18,475 25,832	91,381 98,882	59 155	R 27,082 R 29,235	R 210,768 R 227,890	100,246 96,994	135 129	16,226 19,133	9,481 10,334	3,886 R 3,879
2021	27,278	1,103	48,633	25,294 23,300	25,832 27,201	98,882	159	29,652	227,141	96,994 98,870	115	23,494	10,334	3,879

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Illinois (trillion Btu)

					Fossil	fuels						Fossil fuels	
						Petroleum						(as commingled)	T
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	914.6	536.1	248.1 238.9 259.2 288.4 314.2 308.6 306.9	57.0	24.4	409.9	166.8	195.8	1.102.0	2.552.7	536.1	248.1 238.9 259.2 288.4 314.2 308.6 306.9	409.9
1960 1965 1970	1 014 5	536.1 778.7	238.9	71.4	24.4 68.8	409.9 466.3 562.5 568.9	145.2	195.8 226.3 255.6 240.1	1,216.9	2,552.7 3,010.1	536.1 778.7	238.9	409.9 466.3 562.5 568.9
1970	920.3	1,203.2 1,260.0	259.2	106.0 107.7	128.2 136.0	562.5	175.7 150.3	255.6	1,487.2	3,610.7	1,203.2	259.2	562.5
1971	920.3 843.8	1,260.0	288.4	107.7	136.0	568.9	150.3	240.1	1,491.3	3,610.7 3,610.7 3,595.2 3,732.1 3,768.7 3,694.3	1,260.0	288.4	568.9
1972	852.2	1,237.5 1,176.7 1,175.8	314.2	121.9 125.9 129.4	157.6 164.8 142.5	598.1 625.3 608.4	188.7	261.9 293.9 271.1	1,642.4	3,732.1	1,237.5	314.2	598.1
1972 1973 1974	884.6 874.9	1,1/6./	308.6	125.9	164.8	625.3	188.8	293.9	1,/0/.4	3,768.7	1,1/6./	308.6	625.3
1974	8/4.9 9/5.6	1,1/5.8	306.9	129.4	142.5	608.4	185.1	2/1.1	1,043.5	3,094.3	1,1/5.8	306.9	608.4
1975	862.2	1,123.0	290.5 333.6	143.0	140.2 144.5	644 G	176.9 156.3	200.1	1,021.0	3,590.6	1,123.0	∠90.5 333.6	623.2 644.6
1975 1976 1977	845.6 862.2 860.6	1,123.6 1,204.6 1,199.8	298.5 333.6 332.1 345.3 283.5 213.8 201.0 189.7 202.6	127.6 143.9 141.0 140.6 185.1	153.6	623.2 644.6 655.3 685.7 625.7 572.9 563.6 552.5 561.8	172 1	271.1 255.1 248.2 257.6 268.5 263.8 233.7 152.3	1,102.0 1,216.9 1,487.2 1,497.3 1,642.4 1,707.4 1,643.5 1,621.6 1,671.1 1,711.7 1,780.0 1,679.3 1,447.9 1,264.1 1,167.3 1,197.3 1,098.2 1,088.9 1,111.4 1,159.7 1,207.2 1,104.6 1,101.0 1,052.3 1,078.5 1,102.8 1,108.7 1,121.3 1,169.9 1,164.5 1,273.0 1,259.6 1,230.3 1,196.0 1,238.3 1,285.1 1,403.4 1,340.5 1,324.1	3,590.8 3,737.9 3,772.1 3,818.0 3,695.4	1,203.2 1,260.0 1,237.5 1,176.7 1,175.8 1,123.6 1,204.6 1,199.8 1,196.4 1,170.6 1,113.7 1,083.2 1,016.1 976.8 1,074.1 1,000.5 943.7 886.5 982.8 1,017.4 960.2 1,006.5 1,011.5 1,053.1	298.5 333.6 332.1 345.3 283.5 213.8 201.0	598.9 598.1 625.3 608.4 623.2 644.6 655.3 685.7 625.7
1978	841.6	1.196.4	345.3	140.6	153.7	685.7	186.3	268.5	1.780.0	3.818.0	1.196.4	345.3	685.7
1978 1979	845.4 844.5	1,196.4 1,170.6	283.5	185.1	153.7 137.8	625.7	183.4	263.8	1,679.3	3,695.4	1,170.6	283.5	625.7
1980 1981	844.5	1,076.2 1,076.2 1,053.1 996.6 956.3	213.8	138.4 120.6	111.3 95.8 94.2 90.2	572.9	177.7 130.7	233.7	1,447.9	3,368.5 3,113.8 2,942.4 3,001.8	1,113.7	213.8	572.9 563.6 552.5 561.8
1981	796.6	1,053.1	201.0	120.6	95.8	563.6	130.7	152.3	1,264.1	3,113.8	1,083.2	201.0	563.6
1982 1983	778.5 848.2	996.6	189.7	94.5 95.0	94.2	552.5	97.2 86.1	139.2	1,167.3	2,942.4	1,016.1	189.7 202.6	552.5
1983	848.2	956.3	202.6	95.0	90.2	561.8	86.1	161.5	1,197.3	3,001.8	9/6.8	202.6	561.8
1984	833.2	1,056.1 979.9 920.2 873.8 972.8	217.1 189.8 206.4 207.4 200.2 207.1 251.8 209.1 207.5 218.7	91.0	15.0 15.4	552.0	61.9 40.9 52.3	161.2	1,098.2	3,001.8 2,987.5 2,880.0 2,835.8 2,816.8 2,925.2 2,833.3 2,801.0 2,809.4 2,780.4 2,958.8	1,074.1	217.1	552.0 583.7 570.7 580.5 609.6 607.0 556.5 548.3 558.4 571.7
1000	811.1 804.2 783.2 745.2	979.9	206.4	94.9 114.6	11.5	503.7 570.7	40.9 52.3	155.0	1,000.9	2,000.0	1,000.5	189.8 206.4 207.4 200.2	503.7 570.7
1987	783.2	873.8	200.4	148.5	11.1	580.5	43.8	168.4	1,111.4	2,000.0	886.5	200.4	580.5
1985 1986 1987 1988	745.2	972.8	200.2	160 1	22.2	609.6	43.8 37.1	178.0	1 207 2	2 925 2	982.8	200.2	609.6
1989	721.0 748.2 757.6	1.007.7	207.1	45.2	25.3	607.0	25.3	194.7	1,104.6	2.833.3	1.017.4	207.1	607.0
1990	748.2	1,007.7 951.9	251.8	44.6	25.3 22.3 36.3	556.5	25.3 22.6	203.2	1,101.0	2,801.0	960.2	251.8	556.5
1991	757.6	999 5	209.1	45.2 44.6 51.9 44.9	36.3	548.3	21.7	185.0	1,052.3	2,809.4	1,006.5	207.1 251.8 209.1 207.5 218.7	548.3
1992 1993	698.6 812.8	1,003.3	207.5	44.9	41.8	558.4	14.8	211.1	1,078.5	2,780.4	1,011.5	207.5	<i>558.4</i>
1993	812.8	1,043.1	218.7	76.1	51.9	557.4	14.3	184.4	1,102.8	2,958.8	1,053.1	218.7	5/1./
1994 1995 1996	825.4 826.7	1,003.3 1,043.1 1,038.6 1,093.3 1,136.5	184.9	87.8 91.2 88.9	54.4 58.7	562.2	17.0 9.2	202.4	1,108.7	2,972.7 3,041.2 3,226.3	1,046.6	184.9	580.1 570.7
1995	919.9	1,093.3	205.5 215.4	91.2 88.0	68.5	503.7 570.4	12.5	192.9 21 <i>4</i> 2	1,121.3 1 160 0	3,041.2	1,099.7	205.5 215.4	5/0./ 581 3
1997	974.9	1,095.6 975.5 1,011.9 1,040.3 958.4	218.4	88.0	70.9	570.4 574.1	9.0	139.2 161.5 161.2 164.3 155.9 168.4 178.0 194.7 203.2 185.0 211.1 184.4 202.4 192.9 214.2 209.6 218.0 234.8 202.1 191.5 200.6 207.5	1,109.9	3,240.2 3,089.1 3,243.7 3,316.4	1,033.1 1,046.6 1,099.7 1,140.5 1,099.8 978.3 1,026.4 1,053.3 970.6 1,063.5 1,013.5	184.9 205.5 215.4 218.2 235.8 252.3 249.9 245.5 231.6 280.1	580.1 578.7 581.3 589.9 591.6
1997 1998	974.9 949.0	975.5	235.8	88.0 56.6 80.9	74.6	572.9	9.0 6.6	218.0	1.164.5	3.089.1	978.3	235.8	591.6
1999	958 8	1,011.9	252.3	80.9	103.4 128.7	598.1	3.4	234.8	1,273.0	3,243.7	1,026.4	252.3	618.0 624.0
2000	1,016.6	1,040.3	249.9	71.6	128.7	600.1	7.2	202.1	1,259.6	3,316.4	1,053.3	249.9	624.0
2001	983.7	958.4	245.5	64 9	105.8	602.7	20.0	191.5	1,230.3	3,172.5	970.6	245.5	630.0
2002	986.8	1,051.2	231.6	72.0 55.6	77.0	612.5	2.5	200.6	1,196.0	3,234.1	1,063.5	231.6	637.7
2003	1,010.1	1,001.5	280.1	55.6	75.8	605.2	14.0	207.5	1,238.3	3,172.5 3,234.1 3,249.9 3,310.7 3,423.7	1,013.5	280.1	624.0 630.0 637.7 637.9 654.5 647.5 650.2 639.0 611.6
2004 2005	1,069.5 1,047.5	956.0 972.7	272.0	62.5 72.1	122.2 224.1 162.0	620.6	9.5 3.3	198.4 207.2	1,285.1	3,310.7	900.0	272.0 279.8 285.2 285.1 276.7	654.5 647.2
2005	1,045.4	972.7	279.0	72.1	162.0	620.2	1.6	107.2	1,403.4	3 282 0	904.2	279.0	650.2
2006 2007	1,043.4	896.1 968.7 1,003.2	285.2	73.5 74.4 75.5	167.7	605.0	1.6 0.8 1.2	197.9 191.0 192.2	1,340.3	3,282.0 3,384.1 3,380.6	980.3	285.1	639.0
2008	1,091.4 1,103.2	1.003.2	276.7	75.5	167.7 158.7	569.9	1.2	192.2	1,274.3	3.380.6	1.014.5	276.7	611.6
2009	1,015.0	956.6	249.4	73.7	141.6	561.9	0.2	169.7	1,196.6	3,168.1	968.5	251.9	600.8
2009 2010	1,015.0 1,069.0	956.6 962.2	250.2	73.7 77.6	141.6 159.5 158.8 150.7 154.3	552.0 583.7 570.7 580.5 609.6 607.0 556.5 548.3 558.4 557.4 562.2 563.7 570.4 574.1 572.9 598.1 600.1 602.7 612.5 605.2 620.6 616.9 620.2 605.0 569.9 561.9 551.1 525.9 516.2 518.3 519.3	0.2 0.2	166.3	1,204.9	3,168.1 3,236.2 3,221.5 3,048.7	908.3 980.1 1,014.5 968.5 974.4 997.7	251.8	600.8 591.5 564.5 554.6 557.7
2011	1,052.2 969.3	986.3 939.0	264.7	73.6 69.8	158.8	525.9	0.2 0.2	159.8	1,183.0	3,221.5	997.7	268.9	564.5
2012	969.3	939.0	247.9	69.8	150.7	516.2	0.2	155.6	1,140.4		950.7	252.1	554.6
2013 2014	1,026.9	1,063.5	259.1	71.8	154.3	518.3	0.5	165.2	1,169.1	3,259.5	1,0/3.7	267.0	557.7
2014 2015	1,017.9 850.4	1,108.1 1,011.4	2//.1	77.4 71.1	160.2 172.0	519.3 531.2	0.1 0.1	165.0	1,197.1	ა,პ∠პ. l ვ 106 0	1,119.1	∠85.1 314.0	558.8 570.7 584.5 580.7
2015	702.5	1,011.4	284.0	69.2	172.0	531.2 544.9	0.1	R 173 0	R 1 247 6	R 2 995 1	1,022.4	296 g	570.7 584 5
2016 2017	702.5 685.0	1.034 6	292.7	69.2 70.5	175.8 176.8	540.2	0.6 1.3	R 170.8	R 1.252.3	R 2.971 9	1.047.3	304.3	580 7
2018	704 6	1,127.4	302.3	75.7	174.0	536.0	0.9	R 166.0	R 1,254.8	R 3,086.8	1,140.7	312.8	575.7
2018 2019 2020	591.9	_ 1,180.4	285.4	75.7 86.6 85.0	174.0 177.6	518.5	0.7	R 171.2	R 1,240.1	R 3,012.4	_ 1,192.0	294.7	557.7
2020	391.1 R 522.8	R 1,158.2	_ 270.1	85.0	104.8	544.2 540.2 536.0 518.5 428.7	0.4	R 168.3	1,274.3 1,196.6 1,204.9 1,183.0 1,140.4 1,169.1 1,197.1 1,245.1 R1,247.6 R1,252.3 R1,252.3 R1,254.8 R1,240.1 R1,057.2	R 2,606.6	R 1,171.5	_ <i>279.6</i>	575.7 557.7 461.7
2021	H 522.8	1,045.0 1,034.6 1,127.4 1,180.4 R 1,158.2 R 1,088.5 1,136.9	184.9 205.5 215.4 218.2 235.8 252.3 249.9 245.5 231.6 280.1 272.0 279.8 285.2 285.1 276.7 249.4 250.2 264.7 247.9 259.1 277.1 304.6 284.8 292.7 302.3 285.4 270.1	85.4	146.5	463.4 460.0	1.0	169.7 166.3 159.8 155.6 165.2 163.0 166.1 R 173.0 R 170.8 R 166.0 R 171.2 R 168.3 180.5	R 1,140.2 1,140.1	3,259.5 3,323.1 3,106.9 R 2,995.1 R 2,971.9 R 3,086.8 R 3,012.4 R 2,606.6 R 2,751.5	950.7 1,073.7 1,119.1 1,022.4 1,055.9 1,047.3 1,140.7 1,192.0 R 1,171.5 R 1,101.6	251.9 251.8 268.9 252.1 267.0 285.1 314.0 296.8 304.3 312.8 294.7 279.6 8 279.5	499.4
2022	497.0	1,136.9	276.3	77.8	154.2	460.0	1.0	183.0	1,140.1	2,774.0	1,150.0	280.4	495.8

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Illinois (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	mass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	3.0	R 0.6	31.0	NA	NA	NA	NA	31.0	0.0	NA	NA	R 31.7	R <sub>-</sub> 116.5	0.0	R 2,470.9 R 2,957.2 R 3,606.9
1965 1970	11.4 27.6	R 0.6 R 0.6	33.2 39.3	NA NA	NA NA	NA NA	NA NA	33.2 39.3	0.0 0.0	NA NA	NA NA	R 33.8 R 39.9	R-116.5 H-98.1 R-71.3 R-55.6 R-80.3 R-108.0 R-107.5 R-152.7 R-152.7 R-136.3 R-101.9 R-85.4 R-74.6 R-60.2 R-69.1 R-88.8 R-77.8	0.0 0.0	<sup>H</sup> 2,957.2 R 3 606 9
1971	47.4	R 0.5	39.3 39.2 39.9	NA	NA	NA	NA	39.3 39.2	0.0	NA	NA NA	R 39.7	R -55.6	0.0	R 3,626.7 R 3,833.3 R 3,922.3 R 3,848.5
1972 1973	141.0 218.6	R 0.5 R 0.4	39.9 42.5	NA NA	NA NA	NA NA	NA NA	39.9 42.5	0.0 0.0	NA NA	NA NA	R 40.4 R 43.0	R -80.3	0.0 0.0	<sup>n</sup> 3,833.3 R 3 922 3
1973 1974	218.7	R 0.4 R 0.4	42.5 42.7	NA	NA	NA	NA	42.7	0.0	NA	NA	n 43.1	R -107.5	0.0	R 3,848.5
1975 1976	245.8	R 0.4 R 0.4	41.6 46.1	NA NA	NA NA	NA NA	NA NA	41.6 46.1	0.0 0.0	NA NA	NA NA	R 42.0 R 46.6	n -121.7 R -152 7	0.0 0.0	R 3,848.5 R 3,756.9 R 3,924.0 R 4,024.2 R 4,104.0 R 3,956.0 R 3,677.2 R 3,295.7 R 3,295.7 R 3,363.8 R 3,401.6 R 3,346.8
1977	292.2 307.4	R 0.4	46.1 50.0	NA	NA	NA	NA	46.1 50.0	0.0	NA	NA	R 50 4	R -105.7	0.0	R 4,024.2
1978 1979	360.2 298.8	R 0.4	61.6 63.3	NA NA	NA NA	NA NA	NA NA	61.6 63.3	0.0 0.0	NA NA	NA NA	R 62.0 R 63.7	H -136.3 R -101 9	0.0 0.0	H 4,104.0 R 3 956 0
1980	302 6	R 0.4 R 0.5 R 0.5	90.9 95.6	NA 0.5	NA	NA	NA	90.9 98.9	0.0	NA NA	NA	H 91 4	R -85.4	0.0	R 3,677.2
1981	325.2	H 0.5 R 0.4	95.6 95.6	0.5 2.1	NA NA	NA NA	2.9 9.5	98.9 107.1	0.0 0.0	NA NA	NA NA	R 99.4 R 107.6	H -74.6 R -60.2	0.0 0.0	H 3,463.7
1982 1983	305.9 305.6	B 0.5	95.6 105.3	1.9	NA	NA	17.7	125.0	0.0	NA	0.0	R 125 5	R -69.1	0.0	B 3,363.8
1984 1985	379.2 415.4	R 0.5 R 0.5 R 0.5	97.8 99.2	4.4 7.1	NA NA	NA NA	21.1 22.5	123.3 128.8	0.0 0.0	0.0 0.0	0.0 0.0	R 123.8 R 129.3	H -88.8 B 77.0	0.0 0.0	H 3,401.6
1986 1987	450.8 524.1	R 0.5	106.4 113.3	9.7	NA	NA	23.7 25.8	139.8	0.0	0.0 0.0 0.0	0.0	R 140.3 R 150.8	R <sub>-</sub> 101.3	0.0	R 3,325.6 R 3,394.0
1987 1988	524.1 733.3	R 0.5 R 0.4 R 0.2	113.3	11.3	NA NA	NA	25.8 25.8	139.8 150.4 159.3	0.0	0.0 0.0	0.0	R 150.8	R -97.7	0.0	R 3,394.0
1989	733.3 791.8	Rna	121.7 93.5	11.9 12.8	NA NA	NA NA	24.2	130.5	0.0 0.2	0.0 (s)	0.0 0.0	R 159.6 R 131.1	R -220.0	0.0 0.0	R 3,536.2
1990	760.7	R 0.5 R 0.5	69.6	11.4	NA	NA	20.2	101.2	0.3	(s) 0.1	0.0	R 102.0 R 108.0	R -184.7 R -220.0 -52.2 R 6.4	0.0	R 3,611.5
1991 1992	753.4 772.2	R 0.5	71.2 71.9	12.6 14.4	NA NA	NA NA	23.5 26.6	107.2 113.0	0.3 0.3	0.1 0.1	0.0 0.0	H 113 8	-16.8 R -126.6 R -59.1 R -77.0 -72.5 R 70.5 R 89.4 R -167.7 R -317.5	0.0 0.0	R 3,394.0 R 3,633.4 R 3,536.2 R 3,611.5 R 3,677.3 R 3,649.6 R 3,752.7 R 3,885.8 R 3,969.4 R 3,987.2 R 3,852.3
1993 1994	823.2	R 0 4	53.3 51.0	14.3	NA	NA	28.8	96.4 99.2	0.3 0.3	0.1	0.0 0.0	R 97.3 R 100.0	R <sub>-</sub> 126.6	0.0	R 3,752.7
1994 1995	759.4 824.6	R 0.4 R 0.4	51.0 52.2	17.8 15.0	NA NA	NA NA	30.4 29.0	99.2 96.1	0.3	0.1 0.1	0.0	R 97.0	'' -59.1 R -77.0	0.0 0.0	R 3,772.9
1996	732.8	R 0 4	52.2 59.3 53.2	10.9	NA	NA	11.8	81.9	0.4	0.1	0.0 0.0	R 82 8	-72.5	0.0	R 3,969.4
1997 1998	535.9 583.3	R 0.3 R 0.5	53.2 46.6	15.8 18.7	NA NA	NA NA	20.7 24.2	89.7 89.5	0.4 0.4	0.1 0.2	0.0 0.0	R 90.5 R 90.5	70.5 R 89 4	0.0 0.0	R 3,937.2
1999 2000	854.2	R 0.5 R 0.5 R 0.5	49.5 44.9	19.9	NA	NA	22.3 26.7	91.7 95.6	0.4	0.2 0.2	0.0 0.0	R 92.9 R 96.7	R -167.7	0.0 0.0	R 4,023.1 R 4,028.3
2000 2001	932.7 964.5	H 0.5 R 0.5	44.9 42.0	24.0 27.3	NA 0.2	NA NA	26.7 29.1	95.6 98.7	0.4 0.5	0.2	0.0	<sup>H</sup> 96.7 R 99.9	H -317.5 R -332.2	0.0 0.0	H 4,028.3 R 3 904 7
2002	948.8	P 0.4	44 1	25.2	0.4	NA	29.1 39.7	109.4	0.5	0.3	_ 0.0	R 110 7	R -373.8	-0.4	B 3,919.3
2003 2004	987.3 959.9	R 0.5 R 0.4 R 0.5 R 0.5	44.4 44.7	32.7 33.8	0.3 0.6	NA NA	47.0 43.9	124.4 123.0	0.7 0.7	0.2 0.3 0.4 0.5	0.0 0.0 R 0.1 R 0.3	R 126.0 R 125.1	H -417.9 B -403.3	-0.5 -0.1	R 3,904.7 R 3,919.3 R 3,944.7 R 3,992.2
2005	973.3	H 0.4	31.5	30.3	2.0	NA	41.7	105.6	0.8	0.7	P 0.5	H 108 0	R -365.7	-0.1	R 4,139.2
2006 2007	982.5 1,004.1	R 0.6 R 0.5	25.3 27.5	30.0 34.0	5.9 8.0	NA NA	42.3 51.2	103.4 120.7	1.0 1.2	0.8 B 0.0	R 0.5 R 0.9 R 2.3 R 8.0	R 106.6 R 125.6	H -381.6	(s) 0.2	R 4,139.2 R 3,989.5 R 4,077.1 R 4,071.5
2008	994.5	R 0.5	29.2	41.7	6.8	NA	56.1	133.8	1.4	R 1.0	R 8.0	H 144.7	R -448.5	0.1	R 4,071.5
2009 2010	998.6 1,005.4	R 0.5 R 0.4	37.8	38.8 40.4	7.3 5.9	NA NA	70.5 81.7	154.5 168.5	1.7 2.0	1.1 B 1.0	R 9.6	R 167.4 R 187.3	R -484.3	(s) (s) (s)	R 3,849.8 R 3,962.9 R 3,950.2
2011	1.002.7	R 0.5	40.5 29.5	38.6	20.0	0.0	80.9	168.5	1.9	R 1.2	R 21.2	<sup>H</sup> 193.7	R -465.9	(S) (S)	R 3,962.9
2012 2013	1,010.2 1,014.9	R 0 4	26.5 30.6	38.4 39.4	18.7 19.9	0.0	80.5 82.1	164.2	2.0 2.0	R 1.3	R 26.4	R 19/13	R -434.6	(s) 0.0	R 3,818.6
2013 2014	1,014.9 1,023.5	R 0.4 R 0.5	31.3	39.5	19.9 21.2	0.0 0.0	82.1 85.1	171.9 177.0	2.0	H 1.4 R 1.5	R 34.4	R 208.6 R 215.4	H -508.9	0.0 0.0	R 3,818.6 R 3,974.2 R 4,051.8 R 3,884.8
2015	1,017.4	R ∩ ₄	19.4	39.4	21.2 23.4	0.0	83.1	165.3	2.0	R 1.5	R 36.7	R 206.0	R -445.5	0.0	R 3,884.8
2016 2017	1,031.3 1,016.5	R 0.5 R 0.4 R 0.5	18.6 16.9	40.3 40.4	22.1 22.7	0.0 0.0	91.8 88.2	R 172.9 168.2	2.0 2.0	0.8 R 0.9 R 1.0 1.1 R 1.2 R 1.3 R 1.4 R 1.5 R 1.5 R 1.5	R 9.6 R 15.2 R 21.2 R 26.4 R 32.8 R 34.4 R 36.4 R 41.9 R 40.6 R 49.3 R 55.3	R 213.3 R 214.2	R .332.2 R .372.2 R .471.9 R .403.3 R .365.7 R .381.6 R .436.9 R .448.5 R .465.9 R .467.8 R .434.6 R .510.2 R .445.5 R .354.7 R .354.7 R .354.7 R .354.7 R .354.7 R .354.7	0.0 (s)	R 3,884.9 R 3,844.4 R 3,975.5 R 3,901.2
2018	1,025.7	R 0.5	19.0	39.8	23.3	0.0	81.3	163.3	2.0	R 1.8	R 40.6	R 208 3	R -345.2	(s) 0.1	R 3,975.5
2019 2020	1,031.0 1,047.2	R 0.4 R 0.5	19.1 R 16.4 R 16.0	39.2 33.0	21.9 20.8	0.0 0.0	78.3 74.8	158.6 R 145.1 R 148.0	2.0 2.0	R 2.1 R 3.0	H 49.3 R 55.4	R 212.5 R 205.9	<sup>H</sup> -354.8 R <sub>-</sub> 303 a	0.0 0.0	<sup>H</sup> 3,901.2 R 3 555 8
2021	R 1,011.6	R 0.4	R 16.0	35.9	20.8	0.0	75.3	R 148.0	2.0	H 6.2	R 65.3	R 221.9	R -347.5	0.0	R 3,555.8 R 3,637.4
2022	1,031.1	0.4	16.6	35.8	20.8	0.0	78.5	151.8	2.0	10.8	80.2	245.1	-374.6	0.0	3,675.6

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Illinois

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	20,454	476	42,431	14,958	4,356	78,026	26,339	32,744	198,855	19					34,001			_
1970	13,143	1,041	41,828	28,481	22,644	107,084	24,728	42,055	266,821	20					70,881			-
1980	5,536	1,071	36,014	38,811	19,508	109,062	15,510	38,749	257,654	17					96,949			-
1990	6,508	930	42,736	12,471	3,952	105,948	1,972	33,271	200,350	0					111,577			-
2000	5,820	983	42,582	20,131	22,699	119,985	349	32,917	238,664	2					134,697			_
2005	4,298	911	47,757	20,359	39,525	124,646	386	33,331	266,004	0					144,986			-
2006 2007	4,400 4.611	851 903	48,950 49,031	20,751 21,104	28,578 29,573	125,393 124,277	227 122	32,071 31.070	255,971 255,177	0					142,448 146,055			_
2007	4,523	966	47,604	21,104	27,993	119,777	181	31,046	247,775	0					144,620			_
2009	3,573	923	43,373	20,973	24,970	118,031	37	27,463	234,847	0					136,688			_
2010	4,556	921	43,406	23,049	28,136	116,733	25	26,966	238,315	0					144,761			_
2011	5,093	939	46,446	22,004	28,005	111,501	30	26,006	233,992	0					142,886			-
2012	4,882	851	43,575	21,026	26,587	109,553	34	25,384	226,158	2					143,540			-
2013	4,816	1,005	46,200	20,799	27,220	110,220	73	27,163	231,675	2					141,805			-
2014	4,746	1,051	49,296	23,207	28,254	110,454	22	26,749	237,982	3					141,540			-
2015	3,829	910	54,397	21,577	30,329	112,845	16	27,202	246,366	2					138,620			-
2016	3,584	878	51,413	21,087	31,000	115,636	99	R 27,724	R 246,959	1					141,050			-
017	3,664	876	52,749	21,417	31,188	114,915	202	R 27,459	R 247,930	2					137,196			-
2018 2019	3,614	970 983	54,205 51.080	22,763	30,686	113,913	141	R 26,672 R 27,556	R 248,380 R 246.075	1					142,655			-
2019	3,568 3,489	983 897	48,502	25,612 25,194	31,317 18,475	110,394 91,381	114 59	R 27,082	R 210,692	1					138,319 132,469			_
2020	3,469	R 895	R 48,380	25,194	25,832	98,882	155	R 29,235	R 227,778	1					135,689			_
2022	2,927	959	48,549	23,300	27,201	98,196	159	29,652	227,057	Ö					135,872			_
	,-		-,-	-,	, ,	,		-,	Trillion	Btu								
1960	497.7	492.3	247.2	57.0	24.4	409.9	165.6	195.8	1,099.8	R 0.1	31.0	NA	NA	NA	116.0	R 2,236.9	R 233.9	R 2,470.
1970	311.4	1,067.5	243.6	106.0	128.2	562.5	155.5	255.6	1,451.4	R 0.1	39.3		NA NA	NA NA	241.8	R 3,111.5	R 495.4	R 3,606.
1980	131.8	1,094.1	209.8	138.4	110.4	572.9	97.5	233.7	1,362.7	R 0.1	90.9		NA NA	NA NA	330.8	R 2,973.5	R 703.7	R 3,677.
1990	156.8	950.8	248.9	44.6	22.3	556.5	12.4	203.2	1,087.9	0.0	67.3		0.3	0.1	380.7	2,667.1	R 944.5	R 3,611.
2000	141.3	1,005.2	247.8	71.6	128.7	624.0	2.2	202.1	1,276.5	(s)	34.0		0.4	0.2	459.6	2,931.5	R 1,096.8	R 4,028
2005	95.9	924.6	277.8	72.1	224.1	647.2	2.4	206.1	1,429.8	0.0	23.4	41.7	0.8	0.7	494.7	3,002.8	R 1,136.4	R 4,139
2006	98.3	864.6	284.1	73.5	162.0	650.2	1.4	197.6	1,368.8	0.0	17.3		1.0	_ 0.8	486.0	_ 2,873.4	R 1,116.2	R 3,989
2007	103.1	916.1	283.6	74.4	167.7	639.0	8.0	191.0	1,356.5	0.0	19.2		1.2	R 0.9	498.3	R 2,943.8	R 1,133.3	R 4,077
2008	100.0	979.3	275.2	75.5	158.7	611.6	1.1	192.2	1,314.3	0.0	19.7		1.4	R 1.0		2,961.2	R 1,110.3	R 4,071.
2009	77.8	934.7	250.6	73.7	141.6	600.8	0.2	169.7	1,236.5	0.0	28.4		1.7	1.1	466.4	2,805.7	R 1,039.3	R 3,845
2010	99.9	927.8	250.7	77.6	159.5	591.5	0.2	166.3	1,245.8	0.0	31.0		2.0	1.1 R 1.1	493.9	2,871.7	R 1,087.0	R 3,958
2011	114.0	949.3	268.0	73.6 69.8	158.8	564.5	0.2	159.8 155.6	1,224.9	0.0	21.2		1.9 2.0	H 1.1	487.5 489.8	2,870.1 R 2,740.4	R 1,064.4 R 1,063.7	R 3,934 R 3,804
2012 2013	116.5 114.4	860.4 1,020.7	251.3 266.3	69.8 71.8	150.7 154.3	554.6 557.7	0.2 0.5	155.6 165.2	1,182.3 1,215.7	(s) (s)	18.3 22.5		2.0	R 1.2	489.8 483.8	R 2,932.8	R 1,063.7	R 3,962
2013	112.3	1,075.9	284.1	71.6 77.4	160.2	558.8	0.5	163.0	1,243.6	(s)	23.1	85.1	2.0	R 1.3	482.9	R 3,015.8	R 1,029.5	R 4,038
2015	88.9	936.8	313.4	71.1	172.0	570.7	0.1	166.1	1,293.4	(s)	12.3		2.0	R 1.3	473.0	R 2,880.9	R 990.0	R 3,870
2016	82.7	907.1	296.0	69.2	175.8	584.5	0.6	R 173.0	1,299.1	(s)	11.9		2.0	R 1.4	481.3	R 2.867.9	R 1,006.9	R 3.874
2017	84.4	901.8	303.7	70.5	176.8	580.7	1.3	R 170.8	R 1,303.7	(s)	10.8		2.0	R 1 5	468 1	R 2,849.7	R 983.7	R 3,833
2018	82.7	997.9	312.2	75.7	174.0	575.7	0.9	R 166.0	R 1,304.4	(s)	12.5	81.3	2.0	R 1 6	486.7	R 2,957.6	R 1,005.1	R 3,962
2019	81.5	1,015.5	294.2	86.6	177.6	557.7	0.7	R 171.2	R <sub>1,288.1</sub>	(s)	R 12.9	78.3		<sup>R</sup> 1.9	471.9	R 2,942.4	<sup>R</sup> 946.2	R 3,888
2020	79.2	R 931.6	_ 279.2	85.0	104.8	461.7	0.4	R 168.3	R 1,099.3	(s)	R 10.5	74.8	2.0	R 2.7	452.0	R 2,641.8	R 902.8	R 3,544
2021	72.8	R 924.3	R 278.9	85.4	146.5	499.4	1.0	<sup>R</sup> 180.5	<sup>R</sup> 1,191.6	(s)	<sup>R</sup> 10.6		2.0	R 4.4		R 2,733.0	R 899.7	R 3,632.
2022	69.9	1,000.9	279.9	77.8	154.2	495.8	1.0	183.0	1,191.7	0.0	12.1	78.5	2.0	5.5	463.6	2,813.0	858.2	3,671.

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Illinois

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>©</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses <sup>i</sup>	Total e,h
1960	3,761	232	15,330	5,210	2,052	22,592				9,969			
1965 1970	2,250	232 342 439	13,154 11,980	6,010	2,518 1,336	21,683 21,962				14,173 22,533			
1970	2,250 1,231	439	11,980	6,010 8,646	1,336	21,962				22,533			
1975 1980 1985	230 39 59	479	12,384 3,512 2,344	9.177	1,225 161 568	22,786 7,739 6,442				26,366 29,930 29,976			
1980	39	478 447	3,512	4,066 3,530	161	7,739				29,930			
1985	59	447	2,344	3,530 3,220	568 101	6,442				29,976			
1990 1995	53 29 25	442 501	1,394 761	3,884	84	4,716 4,729				32,871 38,386 40,146			
2000	25	467	412	5,453	101	5 987				40 146			
2005 2006	12 12	438 398 433	212 180	4,355 4,698	117	4,684 4,945 5,537				48,593 46,381			
2006	12	398	180	4,698	68	4,945				46,381			
2007	16	433	155	5,330 7,198 6,529 6,610	121 117 68 52 24 32 34	5,537				48 036			
2008 2009	0	466 440	203	7,198	24	7,424 6,677				46,780 44,324 48,583			
2009	0	440 417	117 117	6,529	32	6,677 6,761				44,324			
2010	0	418	110	5,010	2/	5,761				40,363			
2012	0	361	65	5,821 4,798	24 7	5,955 4,871				47,057 46,902			
2013 2014 2015	Ö	453	65 77 85 71	6,615 5,444 5,010	10	6,702 5,545 5,092				46,372 46,009 44,646 45,990 43,717 47,226 45,220			
2014	0	479	85	5,444	17	5,545				46,009			
2015	0	401	71	5,010	11	5,092				44,646			
2016	0	387 378	74	4,764	18	4,856 4,803				45,990			
2017 2018	0	3/8	/4 05	4,718 5,802	11 8	4,803 5,895	==			43,717			
2019	0	438 438	74 74 85 65 54 77	7,239	14	7,318				47,220			
2020	ŏ	396	54	6,960	9	7,022				46,171			
2021	Ö	388	77	7,143	11	7,231				46.813			
2022	0	424	82	6,474	11	6,566				46,479			
							Trillion Btu						
1960 1965 1970 1975	90.4	240.2 351.9 450.1 491.0	89.3	20.0	11.6	120.9	14.8	NA	NA	34.0	500.4	R 68.6 R 95.1 R 157.5 R 183.7 R 217.2 R 207.8 R 278.2 R 319.3 R 326.9 R 380.9	R 569.0
1965	53.8	351.9	76.6	23.1	14.3	114.0	11.0	NA	NA	48 4	579.1	_R 95.1	R 674.2
1970	28.4 5.2	450.1	69.8 72.1	33.2	7.6 6.9	110.6	12.7 13.6	NA	NA	76.9 90.0	678.7	H 157.5	H 836.2
19/5	5.2	491.0	/2.1	35.2	6.9	114.3	13.6	NA	NA	90.0	714.1	n 183.7	R 569.0 R 674.2 R 836.2 R 897.8 R 880.2 R 848.9 R 893.1 R 996.3 R 971.9 R 1,012.1 R 1,024.1 R 1,024.1 R 971.1 R 1,024.1
1980	0.9 1.3	489.0	20.5	15.6 13.6	0.9 3.2 0.6	37.0 30.4	50.7	NA NA	NA NA	102.1 102.3 112.2	663.0 641.1	H 217.2	R 040 0
1985 1990 1995 2000	1.2	464.5 451.9 510.9	13.7 8.1	12.4	0.6	21.1	52.3 32.2 17.2	0.3	0.1	112.3	614.8	R 278 2	R 893 1
1995	0.7	510.9	4.4	14.9	0.5	19.8	17.2	0.3	0.1	131.0	677.0	R 319.3	R 996.3
2000	0.6	477.4	2.4	20.9	0.5 0.7	24.0	11.4	0.4	0.2	137.0	645.0	R 326.9	R 971.9
2005	0.3	444 0	1.2 1.0 0.9 1.2	16.7	0.7	18.6	6.3 5.6	0.8	0.7	165.8	631.3	R 380.9	R 1,012.1
2006 2007 2008	0.3	404.5 439.3 472.4	1.0	18.0 20.5 27.6	0.4 0.3 0.1	19.5 21.7 29.0	5.6	1.0	0.8 0.9	158.3	584.4	H 363.4	R 947.8
2007	0.4	439.3	0.9	20.5	0.3	21.7	6.2 6.9	1.2		163.9	628.4 665.0	n 3/2./	T 1,001.1
2008	0.0 0.0	472.4 445.7	0.7	27.6 25.1	0.1	29.0	6.9 14.0	1.4 1.7	1.0 1.1	159.6	634.0	H 227.0	11,024.1 B 071.1
2009 2010	0.0	419.8	0.7	25.4	0.2 0.2	25.9 26.3	15.0	2.0	1.1	165.8	624.5	R 364 8	R 989 3
2011	0.0	422.6	0.6	22 4	0.1	23.1	14.6	1.9	1.1	160.6	618 9	R 350.5	R 969.4
2012	0.0	364.8	0.4	18.4		18.8	12.2	2.0	1.2	160.0	_ 554.5	R 347.6	R 902.0
2013	0.0	459.9	0.4	18.4 25.4	(s) 0.1	23.1 18.8 25.9	15.9	2.0	1.1 1.2 1.2 R 1.2	131.0 137.0 165.8 158.3 163.9 159.6 151.2 165.8 160.6 160.0 158.2 157.0 152.3 156.9	554.5 R 658.6 R 683.5	R 380.9 R 363.4 R 372.7 R 359.1 R 337.0 R 364.8 R 350.5 R 347.6 R 336.7	R 995.3
2014	0.0	490 7	0.5	20.9	0.1	21.5	16.1	2.0	H 1.2	157.0	H 683.5	H 332.4	H 1,016.0
2015	0.0	412.9	0.4	19.2	0.1	19.7 18.8	5.9 R 5.3	2.0	1.3 E 1.3	152.3	589.6 B 570.0	T 318.8	B 007.0
2016 2017	0.0 0.0	399.2 388.8	0.4 0.4	18.3 18.1	0.1 0.1	18.8 18.6	4.6	2.0 2.0	H 1.3 E 1.3	156.9	589.6 R 579.3 R 559.7 R 638.9 R 640.3	R 318.8 R 328.3 R 313.4	R 907.6
2017	0.0	300.0 451 N	0.4	22.3	(s)	10.0 22 R	4.0 5.9	2.0	H 1 /	161 1	R 638 9	R 332 8	R 971 7
2018 2019	0.0	451.0 452.4	0.4	22.3 27.8	0.1	22.8 28.3	6.3	2.0	R 1 6	154.3	R 640.3	R 309.3	R 949.7
2020 2021	0.0	410.9	0.3	26.7	0.1	27.1	R 3.9	2.0 2.0	R 1.9	157.5	R 598.6 R 592.2	R 314.6	R 913.3
2021	0.0	401.1	0.4	26.7 27.4	0.1 0.1	27.1 27.9	5.9 6.3 R 3.9 R 3.8 5.2		R 1.9 R 2.5 2.9	161.1 154.3 157.5 159.7 158.6	R 592.2	R 332.8 R 309.3 R 314.6 R 310.4	R 989.3 R 969.4 R 902.0 R 995.3 R 1.016.0 R 908.4 R 907.6 R 873.2 R 971.7 R 949.7 R 910.6 925.5
2022	0.0	442.9	0.5	24.9	0.1	25.4	5.2	2.0	2.9	158.6	631.9	293.6	925.5

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Illinois

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowati		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	2.614	47	4,834	898	78	358	8,336	14.504	NA			NA	10,002			
1965	2,614 1,697	129 193	4,148	1,036	78 96	358 469 533	7,453	14,504 13,202	NA			NA	15,059			
1970 1975	967 536	216	3,778 3,905	1,490 1,582	51 47	533 678	7,627 4,960	13,478 11,171	NA NA			NA NA	22,406 28,097			
1980 1985	147 210	228 214	2,100 4,127	701	16	1,008 549	2,633 343	6,457 5,723	NA NA			NA	31,579			
1985	212	200	1,799	608 555	96 26	560	204 45	3,144	NA 0			NA (s)	32,578 38,999			
1995	194	204 202	1,870	669	80	138	45	2,803	5			(s)	45,201			
2000 2005	205 134	202	1,602 833	940 805	68 53	223 249	14 60	2,847 2,000	0			(s)	53,152 49,977			
2006	134 122	196	923	810	33	427	1	2,194	0			3	50,631			
2007 2008	145 209	203 222	744 1,225	699 935	36 7	240 268	0	1,719 2,438	0			3	52,043 51,770			
2009	177	223	850	916	10	898	0	2,674	0			3	50,329			
2010 2011	171 151	198 216	891 936	795 725	10 5	241 186	22 19	1,958 1,871	0			4	51,437 50,468			
2012	129	188	1,009	545	2	249	0	1.805	2			8	50,808			
2013 2014	132 123	231 246	1,283 1,317	1,082 747	3 6	172 163	0 (s)	2,540 2,233	2			8 16	50,473 50,619			
2015	97	215	1,194	636	4	2,620	Ó	4,454	2			19	50,320			
2016 2017	105 103	212 216	1,152 1,071	639 1,029	6	2,591 2,564	0	4,388 4,666	1 2			24 38	50,910 49,988			
2018	112	242	1,016	909	4	2,605	ŏ	4.534	1			65	50,763			
2019 2020	87 81	247 215	1,188 987	1,116 1,377	5 4	2,622 2,644	0	4,931 5,011	1			108 243	49,279 45,487			
2021	83	223	R 1,042	1,838	4	2,672	Ö	R 5,556	į			573	46,923			
2022	74	244	1,091	1,057	4	3,504	0	5,656	0			749	47,120			
									lion Btu							
1960 1965	62.8 40.6	48.9 132.7	28.2 24.2	3.4 4.0	0.4 0.5	1.9 2.5	52.4 46.9	86.3 78.0	NA NA	0.3 0.2	NA NA	NA NA	34.1 51.4	232.5 302.9	R 68.8 R 101.1	R 301.3 R 404.0
1970	22.3	198.3	22.0	5.7	0.3	2.8	47.9	78.8	NA	0.2	NA	NA	76.4	376.1	R 156 6	R 532.6
1975 1980	12.1 3.2	221.3 233.2	22.7 12.2	6.1 2.7	0.3 0.1	3.6 5.3	31.2 16.6	63.8 36.9	NA NA	0.3 1.3	NA NA	NA NA	95.9 107.7	393.3 374.3	R 195.7 R 229.2	R 589.1 R 603.5
1985	4.7 4.8	222.1	24.0	2.3	0.5	2.9	2.2	32.0	NA	1.2	NA	NA	111.2	366.5	R 225 9	R 592 4
1990 1995	4.8 4.4	204.7 207.9	10.5 10.9	2.1 2.6	0.1 0.5	2.9 0.7	1.3 0.3	17.0 14.9	0.0 R (s)	3.5 2.4	0.0 0.0	(s) (s)	133.1 154.2	361.3 R 382.6	R 330.1 R 376.0	R 691.4 R 758.6
2000	4.5	206.2	9.3	3.6	0.4	1.2	0.1	14.6	(s)	2.0	0.0	(s)	181.4	406.1	H 432.8	H 838.9
2005 2006	3.1 2.8	204.8 199.4	4.8 5.4	3.1 3.1	0.3 0.2	1.3 2.2	0.4	9.9 10.9	0.0 0.0	1.0 0.9	0.0 0.0	(s) (s)	170.5 172.8	387.0 384.1	R 391.7 R 396.7	R 778.7 R 780.8
2007	3.3	206.3	4.3	2.7	0.2	1.2	(s) 0.0	8.4	0.0	1.0	0.0	(s)	177.6	394.2	R 403.8 R 397.5	ri 798 0
2008 2009	4.6 3.9	225.5 225.6	7.1 4.9	3.6 3.5	(s) 0.1	1.4 4.6	(s) 0.0	12.1 13.1	0.0 0.0	1.1 2.0	0.0 0.0	(s) (s)	176.6 171.7	417.4 413.5	H 397.5 R 382.7	R 814.8 R 796.1
2010	3.8	199.6	5.1	3.1	0.1	1.2	0.1	9.6	0.0	2.0	0.0	(s)	175.5	387.9	R 386.2	R 774.1
2011 2012	3.4 2.9	217.9 190.2	5.4 5.8	2.8	(s)	0.9 1.3	0.1 0.0	9.3 9.2	0.0	1.9 1.6	0.0 0.0	R (s)	172.2 173.4	402.1 R 374.8	R 376.0 R 376.5	R 778.0 R 751.3
2013	3.0	234.5	7.4	2.1 4.2	(S) (S)	0.9	0.0	12.4	(s) (s)	1.9	0.0	R (s) R 0.1	172.2	R /21 g	H 366.4	R 788.2
2014 2015	2.8 2.2	252.0 221.7	7.6 6.9	2.9 2.4	(s)	0.8 13.2	(s) 0.0	11.3 22.6	(s)	2.0 0.9	0.0 0.0	R 0.1 R 0.1	172.7 171.7	R 438.3 R 416.6	R 365.7 R 359.4	R 804.1 R 776.0
2016	2.4	219.4	6.6	2.5	(s) (s)	13.1	0.0	22.2	(S) (S)	0.9	0.0	H 0 1	173.7	R / 16 /	R 363 4	R 779.8
2017	2.3 2.6	222.4 249.1	6.2 5.8	4.0	(s)	13.0 13.2	0.0 0.0	23.1 22.5	(s)	0.8 0.9	0.0 0.0	R 0.1 R 0.2	170.6 173.2	R 416.6 R 445.5	R 358 4	R 775.0 R 803.2
2018 2019	2.6	249.1 255.4	5.8 6.8	3.5 4.3	(s) (s)	13.2 13.2	0.0	22.5 24.4	(S) (S)	0.9	0.0	R 0 4	1/3.2 168.1	R 448.7	R 357.7 R 337.1	R 785.8
2020 2021	1.8 1.8	223.6 230.3	5.7 6.0	5.3 7.1	(s)	13.4 13.5	0.0 0.0	24.3 26.6	(s)	0.9 0.9	0.0	R 0.8 R 2.0	155.2 160.1	R 404.2 R 418.9	R 310.0 R 311.1	R 714.2 R 730.0
2021	1.8	230.3 255.2	6.0	7.1 4.1	(s) (s)	13.5 17.7	0.0	26.6	(s) 0.0	1.0	0.0	2.0	160.1 160.8	418.9 446.3	<sup>n</sup> 311.1 297.6	730.0 743.9
					\-/											

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Illinois

Coal   Natural   Distillated   Safe   February   Safe						Petro	leum			Unadana	Bio	nass						
Thousand   Billion   Cubic Period		Coal			HGL b			Other <sup>d</sup>	Total			Lanna		Solar <sup>f,i</sup>	Electricity <sup>j</sup>			
1975 7 257	Year					Thousand	d barrels					and co-		Mi k	illion Wh	End use f,k	energy	Total <sup>f,k</sup>
1975	1960	13,842	186	13,545	8,534	6,476	16,835	25,548	70,939	19				NA	13,722			
1975 7 257	1965		238	12,074			15,064	33,266							18,708			
1980   5.300   349   7.842   \$2.867   3.505   12.598   36.026   94.737   17		7.257	352			4.290		39,242							30.330			
1995 5.537 321 7.846 20.981 1.500 363 29.776 59.986 0 (6) 42.251 (20) 40.985 (20) 40.98		5.350	349		33,867	3,505	12,598	36,926	94,737						35,158			
1995 5.537 321 7.846 20.981 1.500 363 29.776 59.986 0 (6) 42.251 (20) 40.985 (20) 40.98	1985	5,829	285 276	6,617	22,607 8 368	1,738	3,410	24,473	58,845						36,178	==		
2000   5.590   301   7.788   13.521   1.032   243   30.992   53.386   0         (s)   4.0839         2006   4.152   4.162   2.164   5.162   5.000   51.732   57.746   0         (s)   4.588         2.000   4.152   2.164   5.162   5.000   51.732   57.746   0         (s)   4.580         2.000   4.152   2.164   5.161   1.2501   1.162										•	==						==	
2006 4,266 246 8,362 14,730 1,754 180 30,589 56,667 0 (9) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,916 (4) 44,160 (4) 44	2000	5,590	301		13,521	1,032	243	30.992	53,586	· ·					40,939			
2007		4,152				2,639	303	31,732	57,748					(s)	45,888			
2009 3,396 235 5,467 13,037 1,503 13 26,242 46,262 0 (a) 41,507 (b) 42,007 (c) 41,007 (d) 42,007	2006	4,200	255	8 653		1 794	85	29 563	54 830	0				(S)	44,910			
2010 4,385 286 6,088 15,611 2,109 4 25,936 49,717 0 (s) 44,180 (2) 44,942 234 6,283 15,427 2,1556 10 25,004 48,702 0 (3) 44,844 (4) 44,844 (4) 44,844 (5) 44,847 (6) 44,847 (7) 4,848 294 (8,883 15,082 10,193 15 82 28,285 48,686 0 (8) 44,337 (8) 44,337 (9) 44,347 (9) 44,347 (9) 44,347 (9) 44,347	2008	4,315	264		12,301	1,499	143	29,681	52,764					(s)	45,503			
2011 4,942 284 6,203 15,427 2,057 10 25,004 48,702 0 (6) 44,844 (7) 4,844 (8) 44,844 (8) 44,844 (8) 44,844 (8) 44,847 (8) 44,847 (8) 44,847 (8) 44,847 (8) 44,330 (8) 43,362 (8		3,396							46,262	•				(s)	41,507			
2012 4,753 277 6,158 15,656 1,966 12 24,506 48,287 0 (s) 45,277 (s) 2013 4,684 294 6,883 13,062 2,013 52 26,556 48,287 0 (s) 44,377 (s) 44,582		4,385												(S)				
2016 3,732 267 7,740 15,880 1,903 15 68,861 28 51,666 0 (a) 43,131 (b) 43,052 (c) 43,131 (c) 43,131 (c) 43,131 (c) 43,131 (c) 43,131 (c) 43,052 (c) 42,071 3,102 3	2012	4,753	277	6.158	15,656	1,956	12	24,505	48,287	· ·				(s)	45,277			
2016 3,732 267 7,740 15,880 1,903 15 68,861 28 51,666 0 (a) 43,131 (b) 43,052 (c) 43,131 (c) 43,131 (c) 43,131 (c) 43,131 (c) 43,131 (c) 43,052 (c) 42,071 3,102 3	2013	4,684	294	6,883	13,062	2,013	52	26,255	48,265	•				(s)	44,387			
2016 3,479 255 7,380 15,619 2,051 98 \$\frac{1}{2},2057 200 \frac{1}{2} 265.22 \frac{1}{2},5157 5 202 \frac{1}{2} 265.32 \frac{1}{2},515.606 0 (s) 43,632 2018 3,302 263 7,789 15,776 202 \$\frac{1}{2},527 7,207 5 202 \frac{1}{2},527 7,827 15,778 2,056 120 \$\frac{1}{2},2054 8,515.533 0 0 1,44,110 1,44,110 0 1,44,110 0 1,44,110 0 1,44,110 0 1,44,110 0 1,44,110 0			295 267				21 15		52,134 51,666	U				(S)	44,330 43 131			
2018 3.502 283 7.785 15.778 2.096 120 P25.784 P31.583 0 1 44.115 2.000 P3.46 P3.585 P3.46 P3.4	2016		255	7,380		2,051	98	R 26 728	R 51 875	0				(s)	43,632			
2019 3.481 269 7.4812 16.97 2.152 18.97.6 2.150 118 R2b.732 R32.285 0 (8) 43.250 22 221 2.986 R265 7.483 16.267 2.074 168 R26.267 R26.268 0 2 44.1818 22 221 2.983 271 7.512 16.695 2.134 161 26.575 22.068 0 4 41.818 2 24.1818 4 41.818 2 24.1818 4 41.818	2017	3,562		7,221	15,577	2,075	202	R 26.532	R 51 606	0				(s)	42,971			
2020 3,408 265 7,565 16,808 2,070 59		3,502	263	7,785	15,778	2,096	120	R 25,784	R 51,563					1 (c)	44,115			
2021   2,996			265					R 26.367	R 52.869	0				(5)	40,362			
Trillion Blus	2021	2,996	R 265	7,433	16,267	2,074		R 26,244	R 52,165					2	41,498			
1960 338.8 192.7 78.9 32.3 34.0 105.8 156.8 407.8 R0.1 16.0 NA NA NA 46.8 R1.002.2 R94.4 R1.0 1965 381.7 244.6 70.3 43.2 34.2 94.7 201.7 444.1 R0.1 22.0 NA NA NA NA 63.8 R1.156.3 R125.6 R1.2 1970 260.2 390.5 63.1 65.0 31.6 105.0 238.9 503.6 R0.1 26.4 NA NA NA NA 63.8 R1.156.3 R125.6 R1.2 1975 172.9 361.4 64.9 84.4 22.5 98.9 238.7 509.4 R0.1 27.7 NA NA NA NA 103.5 R1.175.1 R211.3 R1.1 1980 127.7 357.0 45.7 119.4 18.4 79.2 22.9 485.6 R0.1 39.0 NA NA NA NA 103.5 R1.175.1 R211.3 R1.1 1980 127.7 357.0 45.7 119.4 18.4 79.2 22.9 485.6 R0.1 39.0 NA NA NA NA 103.5 R1.175.1 R211.3 R1.1 1980 142.3 296.3 38.5 77.3 9.1 21.4 151.1 297.5 R0.1 45.7 22.5 NA NA 120.0 R1.1 199.0 R25.2 R1.1 1990 150.8 281.8 51.5 28.9 6.6 10.8 192.2 29.1 0.0 31.6 20.2 0.0 (s) 134.1 921.9 R250.8 R1.1 1990 144.6 327.4 45.7 72.6 7.8 2.3 179.6 308.0 0.0 28.3 29.0 0.0 (s) 144.2 979.5 R351.5 R1.2 2000 136.3 307.8 45.4 46.2 54. 1.5 190.7 289.2 0.0 20.7 26.7 0.0 (s) 134.1 2 979.5 R351.5 R1.2 2005 92.5 264.4 47.6 51.1 13.7 1.9 196.6 310.9 0.0 16.0 41.7 0.0 (s) 156.6 879.1 R359.7 R1.2 2007 99.4 258.6 50.0 50.0 92.2 0.5 182.0 291.8 0.0 11.7 55.1 0.0 (s) 156.6 879.1 R359.7 R1.2 2007 99.4 258.6 50.0 50.0 92.2 0.5 182.0 291.8 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 2009 73.9 232.2 316.4 43.2 7.7 0.1 162.4 244.9 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 2009 73.9 232.2 316.4 43.2 7.7 0.1 162.4 244.9 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 2007 99.4 258.6 50.0 50.0 92.0 0.5 182.0 291.8 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 2007 99.4 258.6 50.0 50.0 92.0 0.5 182.0 291.8 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 2007 99.4 258.6 50.0 50.0 92.0 0.5 182.0 291.8 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 2007 99.4 258.6 50.0 50.0 92.0 0.5 182.0 291.8 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 2007 99.4 258.6 50.0 50.0 92.0 0.5 182.0 291.8 0.0 11.7 55.1 0.0 (s) 156.0 879.1 R359.7 R1.2 200.0 11.1 10.1 10.1 10.1 10.1 10.1	2022	2,853	271	7,512	15,695	2,134	151	26,575	52,068	0				4	41,818			
1965   381.7   244.6   70.3   43.2   34.2   94.7   201.7   444.1   10.1   22.0   NA   NA   NA   63.8   1,156.3   1,156.3   1,175.1   1,197.0   1,172.9   361.4   64.9   84.4   22.5   98.9   238.7   509.4   1,177.7   NA   NA   NA   NA   NA   103.5   1,175.1   1,179.																		
1970 260.2 390.5 63.1 650.0 31.6 105.0 238.9 503.6							105.8	156.8		R 0.1	16.0					R 1,002.2	R 94.4	R 1,096.6
1975 172.9 361.4 64.9 84.4 22.5 98.9 238.7 509.4					43.2 65.0				444.1 503.6	R 0.1						H 1 269 2	H 170 2	R 1,281.8 R 1,447.5
1980 127.7 357.0 45.7 119.4 18.4 79.2 222.9 485.6 P.0.1 39.0 NA NA NA NA 120.0 P.1.117.0 P.255.2 P.1.3 1995 142.3 296.3 38.5 77.3 9.1 21.4 151.1 297.5 P.0.1 45.7 22.5 NA NA 123.4 P.921.9 P.250.8 P.1.1 1990 150.8 281.8 51.5 28.9 6.6 10.8 192.2 290.1 0.0 31.6 20.2 0.0 (s) 134.1 996.2 P.326.6 P.1.1 1995 144.6 327.4 45.7 72.6 7.8 2.3 179.6 308.0 0.0 28.3 29.0 0.0 (s) 134.1 996.2 P.326.6 P.1.1 2000 136.3 307.8 45.4 46.2 5.4 1.5 190.7 289.2 0.0 20.7 26.7 0.0 (s) 139.7 916.4 P.333.4 P.1.1 2005 92.5 264.4 47.6 51.1 13.7 1.9 196.6 310.9 0.0 16.0 41.7 0.0 (s) 156.6 879.1 P.359.7 P.1.2 2006 95.2 249.4 48.5 50.6 14.2 1.1 188.8 303.2 0.0 10.7 42.3 0.0 (s) 153.3 850.7 P.359.7 P.1.2 2007 99.4 258.6 50.0 50.0 9.2 0.5 182.0 291.8 0.0 11.9 51.2 0.0 (s) 155.3 870.0 P.349.3 P.1.2 2008 95.3 267.7 52.8 41.5 7.7 0.9 184.0 286.9 0.0 11.9 51.2 0.0 (s) 155.3 870.0 P.349.3 P.1.2 2009 73.9 238.2 31.6 43.2 7.7 0.1 162.4 244.9 0.0 12.4 70.5 0.0 (s) 155.0 864.9 P.332.5 P.1.2 2010 96.1 288.2 35.0 49.0 10.7 (s) 160.2 254.9 0.0 14.1 81.7 0.0 (s) 150.7 882.1 P.331.7 P.1.2 2011 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 48.8 80.9 0.0 (s) 153.0 881.0 P.331.7 P.1.2 2013 111.4 298.6 39.7 42.0 10.2 0.3 159.7 252.0 0.0 4.8 80.9 0.0 (s) 151.3 91.0 P.331.7 P.1.2 2014 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 48.8 80.9 0.0 (s) 151.3 91.3 91.3 91.0 P.320.3 P.1.2 2014 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 48.8 80.9 0.0 (s) 151.4 897.4 897.4 892.2 P.1.2 2014 110.6 80.3 263.7 42.5 48.2 10.4 0.6 167.0 268.7 0.0 5.7 91.8 0.0 (s) 151.4 897.4 897.4 892.2 P.1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 157.7 263.6 0.0 5.7 91.8 0.0 (s) 151.4 897.4 892.2 P.1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 157.7 263.6 0.0 5.7 91.8 0.0 (s) 151.4 897.4 892.2 P.1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 157.7 263.2 0.0 5.7 81.3 0.0 (s) 141.6 P.833.1 P.1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 157.7 263.2 0.0 5.7 81.3 0.0 (s) 147.6 P.859.9 P.359.9 P.359.9 P.350.9	1975	172.9	361.4	64.9	84.4	22.5	98.9	238.7	509.4	R 0.1	27.7	NA	NA	NA	103.5	R 1.175.1	R 211 3	R 1,386.4
1990										H 0.1	39.0					H 1 117 0	R 255.2	R 1,372.2
1995 144.6 327.4 45.7 72.6 7.8 2.3 179.6 308.0 0.0 28.3 29.0 0.0 (s) 144.2 979.5 7351.5 71.2 2000 136.3 307.8 45.4 46.2 5.4 1.5 190.7 289.2 0.0 20.7 26.7 0.0 (s) 139.7 916.4 76.3 3.4 71.2 2005 92.5 264.4 47.6 51.1 13.7 1.9 196.6 310.9 0.0 16.0 41.7 0.0 (s) 156.6 879.1 7353.4 71.2 2006 95.2 249.4 48.5 50.6 14.2 1.1 188.8 303.2 0.0 10.7 42.3 0.0 (s) 156.6 879.1 78.3 20.7 79.2 2007 99.4 258.6 50.0 50.0 9.2 0.5 182.0 291.8 0.0 11.7 42.3 0.0 (s) 155.0 864.9 78.3 20.7 79.2 2008 95.3 267.7 52.8 41.5 7.7 0.9 184.0 286.9 0.0 11.7 56.1 0.0 (s) 155.3 870.0 78.3 20.0 79.9 238.2 31.6 43.2 7.7 0.1 162.4 244.9 0.0 12.4 70.5 0.0 (s) 141.6 778.5 7315.6 71.2 2010 96.1 288.2 35.0 49.0 10.7 (s) 160.2 254.9 0.0 14.1 81.7 0.0 (s) 150.7 882.1 78.3 11.0 2011 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 48.8 80.9 0.0 (s) 153.0 881.0 78.3 11.7 71.2 2012 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 154.5 874.8 7335.5 71.2 2014 109.6 301.5 44.6 43.3 9.6 0.1 159.7 263.2 0.0 4.7 82.1 0.0 (s) 151.3 913.0 7330.0 74.2 2014 109.6 301.5 44.6 49.3 9.6 0.1 159.7 263.2 0.0 5.7 78.3 10.0 (s) 147.2 857.3 73.8 308.0 74.2 2017 82.1 267.4 41.6 48.1 10.5 1.3 71.5 72.5 20.0 5.7 78.3 0.0 (s) 147.2 857.3 78.3 80.0 77.4 2017 82.1 267.4 41.6 48.1 10.5 1.3 71.5 72.5 20.0 5.7 78.3 0.0 (s) 147.2 857.3 78.3 80.0 79.7 79.5 278.0 42.7 44.8 48.9 10.6 0.8 71.5 72.5 0.0 5.7 78.3 0.0 (s) 147.2 857.3 78.3 80.0 79.7 79.5 278.0 42.7 44.6 49.3 9.6 0.1 159.7 263.2 0.0 5.7 79.1 80.0 (s) 147.2 857.3 79.3 80.0 79.7 79.5 278.0 42.7 44.6 48.1 10.5 1.3 71.5 72.5 20.0 0.0 5.7 79.1 80.0 (s) 147.2 857.3 79.3 80.0 79.7 79.5 278.0 42.7 44.6 48.1 10.5 1.3 71.5 78.5 79.5 79.5 79.5 79.5 79.5 79.5 79.5 79												22.5					R 250.8	R 1,172.7 R 1,238.9
2000 136.3 307.8 45.4 46.2 5.4 1.5 190.7 289.2 0.0 20.7 26.7 0.0 (s) 139.7 916.4 R333.4 R1.2 2006 92.5 264.4 47.6 51.1 13.7 1.9 196.6 310.9 0.0 16.0 41.7 0.0 (s) 156.6 87.1 R359.7 R1.2 2006 95.2 249.4 48.5 50.6 14.2 1.1 188.8 303.2 0.0 10.7 42.3 0.0 (s) 153.3 850.7 R352.0 R1.2 2007 99.4 258.6 50.0 50.0 9.2 0.5 182.0 291.8 0.0 11.9 51.2 0.0 (s) 155.0 864.9 R352.5 R1.2 2008 95.3 267.7 52.8 41.5 7.7 0.9 184.0 286.9 0.0 11.7 56.1 0.0 (s) 155.3 870.0 R349.3 R1.2 2009 73.9 238.2 31.6 43.2 7.7 0.1 162.4 244.9 0.0 12.4 70.5 0.0 (s) 151.0 864.9 R35.5 R315.6 R1.2 2010 96.1 288.2 35.0 49.0 10.7 (s) 160.2 254.9 0.0 14.1 81.7 0.0 (s) 150.7 882.1 R331.7 R1.2 2011 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 4.8 80.9 0.0 (s) 153.0 881.0 R331.7 R1.2 2012 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 151.4 897.4 R322.2 R1.2 2014 109.6 301.5 44.6 53.5 8.0 0.1 157.3 263.6 0.0 4.7 82.1 0.0 (s) 151.3 913.0 R320.3 R1.2 2014 109.6 301.5 44.6 53.5 8.0 0.1 157.3 263.6 0.0 57.7 82.1 0.0 (s) 148.9 R55.3 R30.0 R32.2 R1.2 2016 80.3 263.7 42.5 48.2 10.4 0.6 167.0 268.7 0.0 5.7 91.8 0.0 (s) 147.2 857.3 R300.0 R31.5 R1.2 2017 82.1 267.4 41.6 48.1 10.5 1.3 R165.2 R266.6 0.0 5.7 81.8 0.0 (s) 147.6 R550.8 R31.0 R331. R1.2 2017 R32.1 267.4 41.6 48.1 10.5 1.3 R165.2 R266.6 0.0 5.7 81.3 0.0 (s) 147.6 R550.8 R33.1 R275.2 R1.2 2019 79.5 278.0 42.7 53.5 10.4 0.7 R166.3 R273.6 0.0 5.7 78.3 0.0 (s) 147.6 R550.8 R33.1 R275.2 R1.2 2019 79.5 278.0 42.7 53.5 10.4 0.7 R166.3 R273.6 0.0 5.7 78.3 0.0 (s) 147.6 R550.8 R59.9 R255.0 R33.1 R275.2 R1.2 2017 70.9 R273.6 42.8 50.7 10.5 0.9 R164.1 R269.0 0.0 5.6 74.8 0.0 (s) 147.6 R550.3 R275.2 R1.2 2020 77.4 275.6 43.5 52.8 10.5 0.4 R164.1 R269.0 0.0 5.6 74.8 0.0 (s) 147.6 R550.3 R275.2 R1.1 2021 70.9 R273.6 42.8 50.7 10.5 0.9 R164.1 R269.0 0.0 5.6 74.8 0.0 (s) 147.6 R550.3 R275.2 R1.1 2021 70.9 R273.6 42.8 50.7 10.5 0.9 R164.1 R269.0 0.0 5.9 75.3 0.0 (s) 147.6 R550.3 R275.2 R1.1 2021 70.9 R273.6 42.8 50.7 10.5 0.9 R164.1 R269.0 0.0 5.9 75.3 0.0 (s) 147.6 R550.3 R275.2 R1.1 2021 70.9 R273.6 42.8 50									308.0								n 351.5	R 1,331.0
2007 99.4 258.6 50.0 50.0 9.2 0.5 182.0 291.8 0.0 11.9 51.2 0.0 (s) 155.0 864.9 H352.5 H1.2 2008 95.3 267.7 52.8 41.5 7.7 0.9 184.0 286.9 0.0 11.7 56.1 0.0 (s) 155.0 864.9 H352.5 H1.2 2009 73.9 238.2 31.6 43.2 7.7 0.1 162.4 244.9 0.0 12.4 70.5 0.0 (s) 155.3 870.0 F34.5 F315.6 F1.2 2010 96.1 288.2 35.0 49.0 10.7 (s) 160.2 254.9 0.0 14.1 81.7 0.0 (s) 150.7 882.1 F3.3 F3.6 F1.2 2011 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 4.8 80.9 0.0 (s) 150.7 882.1 F3.3 F34.1 F1.2 2012 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 154.5 874.8 F335.5 F1.2 2014 109.6 301.5 44.6 53.5 8.0 0.1 157.3 263.6 0.0 4.7 82.1 0.0 (s) 151.3 913.0 F320.3 F1.2 2014 109.6 301.5 44.6 49.3 9.6 0.1 157.3 263.6 0.0 5.1 85.1 0.0 (s) 151.3 913.0 F320.3 F1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 159.7 263.2 0.0 5.6 83.1 0.0 (s) 147.2 857.3 F350.3 F31.5 F1.2 2017 82.1 267.4 41.6 48.1 10.5 1.3 F165.2 F266.6 0.0 5.7 91.8 0.0 (s) 146.6 F853.0 F308.1 F1.2 2019 79.5 278.0 42.7 53.5 10.4 0.7 F166.3 F20.6 0.0 5.7 78.3 0.0 (s) 147.6 F859.9 F351.5 F1.2 2020 77.4 275.6 43.5 52.8 10.5 0.4 F164.0 F271.2 0.0 5.6 74.8 0.0 (s) 147.6 F859.9 F351.5 F1.2 2020 77.4 275.6 43.5 52.8 10.5 0.4 F164.0 F271.2 0.0 5.6 74.8 0.0 (s) 147.6 F859.9 F357.5 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 10.0 15.0 10.0 10.0 10.0 10.0 10.0 1	2000	136.3	307.8	45.4	46.2	5.4	1.5	190.7	289.2	0.0	20.7	26.7	0.0		139.7	916.4	R 333 4	R 1 249 8
2007 99.4 258.6 50.0 50.0 9.2 0.5 182.0 291.8 0.0 11.9 51.2 0.0 (s) 155.0 864.9 H352.5 H1.2 2008 95.3 267.7 52.8 41.5 7.7 0.9 184.0 286.9 0.0 11.7 56.1 0.0 (s) 155.0 864.9 H352.5 H1.2 2009 73.9 238.2 31.6 43.2 7.7 0.1 162.4 244.9 0.0 12.4 70.5 0.0 (s) 155.3 870.0 F34.5 F315.6 F1.2 2010 96.1 288.2 35.0 49.0 10.7 (s) 160.2 254.9 0.0 14.1 81.7 0.0 (s) 150.7 882.1 F3.3 F3.6 F1.2 2011 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 4.8 80.9 0.0 (s) 150.7 882.1 F3.3 F34.1 F1.2 2012 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 154.5 874.8 F335.5 F1.2 2014 109.6 301.5 44.6 53.5 8.0 0.1 157.3 263.6 0.0 4.7 82.1 0.0 (s) 151.3 913.0 F320.3 F1.2 2014 109.6 301.5 44.6 49.3 9.6 0.1 157.3 263.6 0.0 5.1 85.1 0.0 (s) 151.3 913.0 F320.3 F1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 159.7 263.2 0.0 5.6 83.1 0.0 (s) 147.2 857.3 F350.3 F31.5 F1.2 2017 82.1 267.4 41.6 48.1 10.5 1.3 F165.2 F266.6 0.0 5.7 91.8 0.0 (s) 146.6 F853.0 F308.1 F1.2 2019 79.5 278.0 42.7 53.5 10.4 0.7 F166.3 F20.6 0.0 5.7 78.3 0.0 (s) 147.6 F859.9 F351.5 F1.2 2020 77.4 275.6 43.5 52.8 10.5 0.4 F164.0 F271.2 0.0 5.6 74.8 0.0 (s) 147.6 F859.9 F351.5 F1.2 2020 77.4 275.6 43.5 52.8 10.5 0.4 F164.0 F271.2 0.0 5.6 74.8 0.0 (s) 147.6 F859.9 F357.5 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F20.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.1 10.0 15.0 10.0 10.0 10.0 10.0 10.0 1														(s)	156.6	879.1	H 359.7	R 1,238.7 R 1,202.7
2008 95.3 267.7 52.8 41.5 7.7 0.9 184.0 286.9 0.0 11.7 56.1 0.0 (s) 155.3 870.0 184.0 2009 73.9 238.2 31.6 43.2 7.7 0.1 162.4 244.9 0.0 12.4 70.5 0.0 (s) 141.6 778.5 1831.6 1831.7 11.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 44.8 80.9 0.0 (s) 150.7 882.1 1831.7 181.2 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 154.5 874.8 1835.5 181.2 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 154.5 874.8 1835.5 181.2 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 151.3 897.4 1832.2 181.2 2013 111.4 298.6 39.7 42.0 10.2 0.3 159.7 252.0 0.0 4.7 82.1 0.0 (s) 151.4 897.4 897.4 892.2 191.2 2014 109.6 301.5 44.6 53.5 80 0.1 157.3 263.6 0.0 5.1 85.1 0.0 (s) 151.3 913.0 1832.0 181.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 159.7 263.2 0.0 56 83.1 0.0 (s) 147.2 857.3 1830.0 148.9 857.3 1830.0 148.9 856.3 1831.5 181.2 2017 82.1 267.4 41.6 48.1 10.5 1.3 1865.2 1866.6 0.0 5.7 91.8 0.0 (s) 148.9 1856.3 1831.5 181.1 2017 82.1 267.4 41.6 48.1 10.5 1.3 1865.2 1826.6 0.0 5.7 91.8 0.0 (s) 146.6 1853.0 1830.8 181.7 2019 79.5 278.0 42.5 48.2 10.4 0.6 1860.7 1865.7 0.0 5.7 91.8 0.0 (s) 146.6 1853.0 1830.8 181.7 2019 79.5 278.0 42.5 58.5 10.5 0.4 1860.7 1865.7 0.0 5.7 781.3 0.0 (s) 147.6 1859.9 1856.3 181.5 191.7 2019 79.5 278.0 42.5 58.5 10.5 0.4 1860.7 1865.7 0.0 5.7 781.3 0.0 (s) 147.6 1859.9 1859			258.6			9.2		182.0	291.8					(s)	155.0	864.9	H 352 5	R 1,217.4
2010 96.1 288.2 35.0 49.0 10.7 (s) 160.2 254.9 0.0 14.1 81.7 0.0 (s) 150.7 882.1 131.7 11.2 11.0 11.0 11.0 11.0 11.0 11.0 11.0	2008	95.3	267.7	52.8	41.5	7.7	0.9	184.0	286.9	0.0	11.7	56.1	0.0	(s)	155.3	870.0	H 3/10 3	R 1.219.3
2011 110.6 286.5 35.8 48.3 10.4 0.1 153.9 248.5 0.0 4.8 80.9 0.0 (s) 153.0 881.0 R 334.1 R 1.2 2012 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 154.5 874.8 R 335.5 R 1.2 2013 111.4 298.6 39.7 42.0 10.2 0.3 159.7 252.0 0.0 4.7 82.1 0.0 (s) 151.4 897.4 R 322.2 R 1.2 2014 109.6 301.5 44.6 53.5 8.0 0.1 157.3 263.6 0.0 5.1 85.1 0.0 (s) 151.3 913.0 R 320.3 R 1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 159.7 263.2 0.0 5.6 83.1 0.0 (s) 147.2 857.3 R 308.0 R 1.2 2016 80.3 263.7 42.5 48.2 10.4 0.6 167.0 268.7 0.0 5.7 91.8 0.0 (s) 148.9 R 856.3 R 311.5 R 1.2 2017 82.1 267.4 41.6 48.1 10.5 1.3 R 165.2 R 266.6 0.0 5.4 88.2 0.0 (s) 146.6 R 853.0 R 301.5 R 1.2 2019 79.5 278.0 42.7 53.5 10.4 0.7 R 166.3 R 273.6 0.0 5.7 78.3 0.0 (s) 147.6 R 859.9 R 391.8 R 1.2 2019 79.5 278.0 42.7 53.5 10.4 0.7 R 166.3 R 273.6 0.0 5.7 78.3 0.0 (s) 137.7 R 839.3 R 275.5 R 1.2 2020 77.4 275.6 43.5 52.8 10.5 0.4 R 164.0 R 271.2 0.0 5.6 74.8 0.0 (s) 137.7 R 839.3 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.1 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.3 R 275.5 R 1.3 1.2 2021 70.9 R 273.6 42.8 50.7 10.5 0.9 R 164.1 R 269.0 0.0 5.9 75.3 0.0 (s) 141.6 R 833.3 R 275.5 R 1.3 1.2 2021 70.9 R 273	2009	73.9	238.2		43.2	7.7	0.1	162.4	244.9		12.4	70.5		(s)	141.6	778.5	H 315.6	R 1,094.1 R 1,213.9
2012 113.6 280.1 35.5 49.2 9.9 0.1 150.4 245.1 0.0 4.5 80.5 0.0 (s) 154.5 874.8 F35.5 F1.2 2013 111.4 298.6 39.7 42.0 10.2 0.3 159.7 252.0 0.0 4.7 82.1 0.0 (s) 151.4 897.4 F322.2 F1.2 2014 109.6 301.5 44.6 53.5 8.0 0.1 157.3 263.6 0.0 5.1 85.1 0.0 (s) 151.3 913.0 F322.2 F1.2 2015 86.7 274.5 44.6 49.3 9.6 0.1 159.7 263.2 0.0 5.6 83.1 0.0 (s) 147.2 857.3 F308.0 F1.7 2016 80.3 263.7 42.5 48.2 10.4 0.6 167.0 268.7 0.0 5.7 91.8 0.0 (s) 148.9 F856.3 F311.5 F1.7 2017 82.1 267.4 41.6 48.1 10.5 1.3 F165.2 F266.6 0.0 5.4 88.2 0.0 (s) 146.6 F853.0 F308.1 F1.7 2018 80.1 270.7 44.8 48.9 10.6 0.8 F160.7 F265.7 0.0 5.7 78.3 0.0 (s) 146.6 F859.9 F308.1 F1.7 2019 79.5 278.0 42.7 53.5 10.4 0.7 F166.3 F273.6 0.0 5.6 74.8 0.0 (s) 147.6 F859.9 F25.9 F1.7 2020 77.4 275.6 43.5 52.8 10.5 0.4 F164.0 F271.2 0.0 5.6 74.8 0.0 (s) 137.7 F839.3 F275.1 F1.7 2021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F273.6 42.8 50.7 10.5 0.9 F164.1 F269.0 0.0 5.9 75.3 0.0 (s) 141.6 F833.1 F275.2 F1.7 12021 70.9 F173.6 42.8 50.7 10.5 0.9 F164.1 F1.7 12021 70.9 F173.6 42.8 50.7 10.5 0.9 F164.1 F1.7 12021 70.9 F173.6 42.8 50.7 10.5 0.9 F164.1 F1.7 12021 70.9 F173.6 42.8 50.7 10.5 0.9 F164.1 F1.7 12021 70.9 F173.6 42.8 50.7 10.5 0.9 F164.1 F1.7 12021 70.9 F173.6 42.8 50.7 10.5 0.9 F164.1 F1.7 12021 70.9 F173.6 42.8 50.7 10.5 0.9 F173							(S)							(S)	150.7	881.0	R 33/11	R 1 215 1
2013 111.4 298.6 39.7 42.0 10.2 0.3 159.7 252.0 0.0 4.7 82.1 0.0 (s) 151.4 897.4 1322.2 12.0 12.0 12.0 14.0 15.0 15.1 15.1 15.0 15.1 15.1 15.1 15							0.1		245.1			80.5		(s)	154.5	874.8	R 335.5	R 1,210.3
2015 86.7 274.5 44.6 49.3 9.6 0.1 159.7 263.2 0.0 5.6 83.1 0.0 (s) 147.2 857.3 1 30.0 1.1 50.1 50.0 14.1 50.0 148.9 148.9 10.6 167.0 268.7 0.0 5.7 91.8 0.0 (s) 148.9 148.9 148.9 10.6 167.0 268.7 0.0 5.4 88.2 0.0 (s) 146.6 146.6 148.1 10.5 1.3 145.2 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6								159.7	252.0					(s)			H 222 2	H 1 210 7
2016 80.3 263.7 42.5 48.2 10.4 0.6 167.0 268.7 0.0 5.7 91.8 0.0 (s) 148.9 R856.3 R311.5 R1.7 2017 82.1 267.4 41.6 48.1 10.5 1.3 R165.2 R266.6 0.0 5.4 88.2 0.0 (s) 146.6 R853.0 R308.1 R1.7 2018 80.1 270.7 44.8 48.9 10.6 0.8 R160.7 R265.7 0.0 5.7 81.3 0.0 (s) 150.5 R850.8 R310.8 R1.7 2019 79.5 278.0 42.7 53.5 10.4 0.7 R166.3 R273.6 0.0 5.7 78.3 0.0 (s) 147.6 R859.9 R255.9 R1.7 2020 77.4 275.6 43.5 52.8 10.5 0.4 R164.0 R271.2 0.0 5.6 74.8 0.0 (s) 137.7 R393.3 R275.1 R1.7 2021 70.9 R273.6 42.8 50.7 10.5 0.9 R164.1 R269.0 0.0 5.9 75.3 0.0 (s) 141.6 R833.1 R275.2 R1.7								157.3	263.6			85.1		(s)	151.3	913.0	n 320.3 R 200 0	R 1,233.3
2017 82.1 267.4 41.6 48.1 10.5 1.3 165.2 1266.6 0.0 5.4 88.2 0.0 (s) 146.6 1853.0 130.8 11.7 120.9 14.8 14.9 10.6 0.8 14.0 15.1 13.0 15.4 14.1 14.1 14.1 14.1 14.1 15.1 15.1	2016	80.3		42.5	48.2	10.4		167.0	268.7		5.7	91.8		(s)	148.9	R 856.3	R 311 5	R 1,165.3 R 1,167.7
2018 80.1 270.7 44.8 48.9 10.6 0.8 160.7 265.7 0.0 5.7 81.3 0.0 (s) 150.5 850.8 310.8 1.1 2019 79.5 278.0 42.7 53.5 10.4 0.7 8166.3 8273.6 0.0 5.7 78.3 0.0 (s) 147.6 859.9 8295.9 81.1 2020 77.4 275.6 43.5 52.8 10.5 0.4 8164.0 8271.2 0.0 5.6 74.8 0.0 (s) 137.7 839.3 8275.1 81.1 2021 70.9 8273.6 42.8 50.7 10.5 0.9 8164.1 8269.0 0.0 5.9 75.3 0.0 (s) 141.6 833.1 8275.2 81.1	2017	82.1	267.4	41.6	48.1	10.5	1.3	H 165 2	R 266 6	0.0	5.4	88.2	0.0	(s)	146.6	H 853.0	R 308 1	H 1.161.1
2020 77.4 275.6 43.5 52.8 10.5 0.4 H164.0 H271.2 0.0 5.6 74.8 0.0 (s) 137.7 H839.3 H275.1 H1,1 2021 70.9 R273.6 42.8 50.7 10.5 0.9 R164.1 R269.0 0.0 5.9 75.3 0.0 (s) 141.6 R833.1 R275.2 R1,1							0.8	T 160 7	rt 265 7		5.7			(s)	150.5	n 850.8	n 310.8	R 1,161.7 R 1,155.7
2021 70.9 R273.6 42.8 50.7 10.5 0.9 R164.1 R269.0 0.0 5.9 75.3 0.0 (s) 141.6 R833.1 R275.2 R1,1		79.5 77.4	275.6					H 164 0	rt 271.2		5.7			(S)	147.6	R 839.3	R 275 1	R 1,155.7
	2021	70.9	R 273.6	42.8	50.7	10.5	0.9	R 164.1	H 269.0	0.0	5.9	75.3	0.0	(s)	141.6	R 833.1	R 275.2	R 1,108.3
2022 68.3 282.9 43.3 48.6 10.8 1.0 166.1 269.7 0.0 6.0 78.5 0.0 (s) 142.7 844.8 264.1 1,1	2022	68.3	282.9	43.3	48.6	10.8	1.0	166.1	269.7	0.0	6.0	78.5	0.0	(s)	142.7	844.8	264.1	1,109.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Illinois

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	238 51	10	3,733	8,721	316	4,356	1,333	71,193 81,788	1,168	90,819 107,891 140,850	308			
1965	51	10 13 28	3,733 383 264	8,721 11,509 15,234	318	4,356 12,176	1,333 1,295 1,239	81,788	1,168 423 408	107,891	308 302 296			
1970 1975	17	28 14	264	15,234 20,488	526 486	22,644 24,271	1,239	100,534 113,669	408 215	140,850	296 262			
1980	Ó	15	82 132	22,560	178	19,508	1,452 1,514	104,550	279	160,662 148,721 132,835	282			
1985	0	11	212	19,061	423	2,748	1,378	108,826	187	132,835	379			
1990	0	12	164	30,695	328 287	3,952	1,550	104,123	51	140.863	408			
1995 2000	0	13 14	215 156	24,293 32,770	287 217	10,360 22,699	1,479 1,580	109,570 118,731	35 92	146,240 176,244	393 459			
2005	ő	11	97	38,530	306	39,525	1 333	121 758	23	201 572	528			
2006	0	11	83 78	39,486 39,479	453 340	28,578	1,298 1,341	122,220 122,242	47 37	192,165 193,091	519 545			
2007 2008	0	12	78 90	39,479 37,035	340 740	29,573 27,993	1,341 1,245	122,242 118,010	37 34	193,091	545 566			
2008	0	14 25 20 22 25 27 31	60	36,940	492	27,993 24,970	1,245	115,629	34 24	185,148 179,234 179,879	527			
2010	ŏ	20	105	36,340	34	28,136	880	114,383	0	179,879	560			
2011	0	22	115	39 197	31	28 005	859	109.258	0	177,465 171,195 174,167	516			
2012	0	25	106	36,342 37,957	26	26,587 27,220	764	107,348	21 22	171,195	553 573 582			
2013 2014	0	2/	84 70	37,957 40,156	39 40	27,220 28,254	811 845	108,035 108,705	22	174,167	5/3 582			
2015	ŏ	27	88	45 391	51	30.329	971	108.322	ż	185.154	524			
2016	0	27 24 23	88 79 82	42,807	64	31,000	R 894 R 831	110,994	1	185,154 R 185,839	519 520			
2017	0	23	82	44,383	93	31,188	H 831	110,276	0	H 186.854	520			
2018 2019	0	26 29	88 87	45,320 42,415	273 282	30,686 31,317	R 788 R 718 R 623	109,212 105,722	21 0	R 186,388 R 180,541	551 570			
2020	0	21	80	30,806	49	18,475	R 623	86,667	0	R 145.789	450			
2021	Ö	19	90	H 39,828	46	25,832	n 653	94,136	8	R 145,789 R 162,826	450 455			
2022	0	19	93	39,863	74	27,201	685	92,558	8	162,767	455			
-							Tri	Ilion Btu						
1960	5.7	10.4	18.8	50.8	1.2	24.4	8.1	374.0	7.3	484.7	1.1	501.8	R 2.1 R 2.0 R 2.1 R 1.8	R 503.9
1965 1970	1.2 0.4	13.8 28.7 14.6	1.9 1.3	67.0	1.2 2.0	68.8 128.2	7.9 7.5 8.8	429.6 528.1	2.7 2.6	579.1 758.4	1.0	595.1 788.5	H 2.0	R 597.1
1970	(s)	28.7	0.4	88.7 119.3	1.9	128.2	7.5 8.8	528.1 597.1	2.6 1.4	758.4 866.3	1.0 0.9	788.5 881.8	112.1 R 1.8	R 790.6 R 883.6
1980	0.0	14.9	0.7	131.4	0.7	110.4	9.2 8.4	549.2	1.8	803.3	1.0	819.2	R 2.0 R 2.6 3.5	R 821.2
1985	0.0	11.6	1.1	111.0	1.6	15.4	8.4	571.7	1.2	710.3	1.3	730.2	R 2.6	R 821.2 R 732.8 788.2
1990 1995	0.0	12.4	0.8	178.8	1.3 1.1	22.3	9.4 9.0	547.0 570.2	0.3	759.8 781.7	1.4	784.8	3.5 3.3	788.2 799.9
2000	0.0 0.0	13.6 13.8	1.1 0.8	141.4 190.7	0.8	58.7 128.7	9.0	617.5	0.2 0.6	/01./ 948.7	1.3 1.6	796.6 964.1	3.3	799.9 967.8
2005	0.0	11.3	0.5	224.2	1.2	224.1	8.1 7.9	632.2	0.1	948.7 1,090.3	1.8	1,105.5	4.1	1,109.7 R 1,058.2
2006	0.0	11.3	0.4	229.1	1.7	162.0	7.9	633.7	0.3	1.035.2	1.8	1.054.2	4 1	R 1,058.2
2007 2008	0.0 0.0	11.8 13.7	0.4 0.5	228.3 214.1	1.3 2.8	167.7 158.7	8.1 7.6	628.6 602.6	0.2	1,034.7 986.4	1.9 1.9	1,056.3 1,008.9	4.2 R 4.3	1,060.6 R 1,013.2
2008	0.0	25.2	0.5	213.4	2.8 1.9	141.6	6.8	588.6	0.2 0.2	952.7	1.9	979.7	R 4.0	983.7
2010	0.0	20.3	0.5	209.9	0.1	159.5	5.3	579.6	0.0	955.0	1.9	977.2	R 4.0 R 4.2	R 981.4
2011	0.0	22.3	0.6	226.2	0.1	158.8	5.2	553.2	0.0	944.0	1.8	968.1	R 3.8	R 972.0
2012 2013	0.0 0.0	25.3 27.7	0.5 0.4	209.6 218.7	0.1 0.2	150.7 154.3	4.6	543.4 546.7	0.1 0.1	909.1 925.4	1.9 2.0	936.3 955.0	T 4.1	n 940.4
2013	0.0	31.8	0.4	231.4	0.2	160.2	4.6 4.9 5.1 5.9	546.7 549.9		925.4 947.2	2.0	955.0 981.0	R 3.8 R 4.1 R 4.2 R 4.2 R 3.7 R 3.7 R 3.7	R 940.4 R 959.1 R 985.2 R 1,021.1
2015	0.0	27.8	0.4	231.4 261.5	0.2	172.0	5.9	547.8	(s) (s)	987.8	1.8	1 017 4	R 3.7	R 1,021.1
2016	0.0	24.8	0.4	246.4	0.2	175.8	5.4 5.0	561.1	(s) 0.0	R 989.4	1.8	R 1,016.0	H 3.7	R 1,019.7 R 1,024.2 R 1,026.2
2017 2018	0.0 0.0	23.3 27.1	0.4 0.4	255.5 261.0	0.4 1.1	176.8 174.0	5.0 _ 4.8	557.2 552.0	0.0 0.1	995.4 993.3	1.8 1.9	1,020.5 1,022.3	™3.7 Ran	□ 1,024.2 R 1 006.0
2018	0.0	∠/.1 29.7	0.4	244 3	1.1	174.0	R <sub>4</sub> 4	534 1	0.0	961.8	1.9	R 993 5	3.9 R 3.9	H 997 4
2020	0.0	29.7 R 21.5	0.4	229.6	0.2	104.8	3.8	437.8	0.0	776.6 R 868.0	1.9 1.5	R 799.7	R 3.9 R 3.1	R 802.8
2021	0.0	<sup>H</sup> 19.3	0.5 0.5	H 229.6	0.2	146.5	R 4.0 4.2	475.4	(s) 0.1	R 868.0	1.6	H 888.9	R 3.0	H 891.9
2022	0.0	19.8	0.5	229.8	0.3	154.2	4.2	467.3	0.1	868.6	1.6	889.9	2.9	892.8

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Illinois

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
960	19,218	42	161	0	194	355	254	166		0	NA	NA	0	_
965 970	25,047 28,993	42 35 132	126	Ŏ	194 152 3,221	355 278	254 965 2,514	158 146		Ŏ	NA	NA	Ŏ	_
970	28,993	132	2.667	0	3,221	5,888	2,514	146		0	NA	NA	0	-
975	32.350	34 19	3,833 847	0	7,239 12,762	11,072	22.315	104		0	NA	NA	0	-
980	34,611	19		0	12,762	13,608	27,742	121		0	NA	NA	0	-
985	31,608	6	436	0	2.569	3,005	39,106	119		0	0	0	0	
990	27,396 33,463	9	491 539	0	1,622 1,013	2,113 1,938	71,887 78,481	144		0	0	0	0	
990 995	33,463	39	539	385	1,013	1,938	78,481	119		0	0	0	0	
000	46 046	47	363	0	795	1,158	89.438	142		0	0	0	0	
)05 )06	53,822 53,939	58	338	190	141	669	93,263	129		0	0	141	-18	
006	53,939	43	363 338 200 260	54	141 30	669 284 272	94,154	173		0	0	255	(s) 60	
007	56.488	63	260	0	12	272	95,729	154		0	0	664	60	-
008	57,368	35	263 227 197	0	9	272	95,152	139		0	0	2,337	42	
009	53,670	33	227	0	1	229	95,474	136		0	(s) 14	2,820	8	
010	55,382 53,682 48,509	58 43 35 33 46 48 89 52 43	197	0	7	272 272 229 204 160 136	96,190	119		0		2,820 4,454 6,213 7,727	. 1	
)11	53,682	48	160 136	0	0	160	95,823 96,401	140		0	14	6,213	(s) 6	
012	48,509	89	136	0	0	136	96,401	109		0	31	7,727	6	
013 014	51,996 51,563	52	135	0	0	135 168	97,131	119		0	52 50	9,625 10,079	0	
)14	51,563	43	135 168 107	0	0	168	97,131 97,858	129		0	50	10,079	0	-
15	43,446	84	107	0	0	107	97,282	123		0	49	10,742	0	
16	35,431 34,224	146 142	134 103	0	0	134 103	98,607	131 124		0	49 52	10,659 12,263	0	
)17	34,224	142	103	0	0	103	97,191	124		0	52	12,263	2	
18	35,493	139 170	106 97	0	0	106	98,102	145 123		0	63 59	11,894 14,455	24	
19	29,152	170	97	0	0	97	98,735	123		0	59	14,455	0	-
)20	17,800	234	76	0	0	76	100,246	134		0	77	16,222	0	-
021	17,800 R 25,730 24,351	171 144	112 84	0	0	112	96,994 98,870	128		0	513	19,128 23,489	0	
022	24,351	144	84	0	0	84	98,870	115		0	1,548	23,489	0	•
							Trillion Btu							
960	416.9	43.8	0.9 0.7	0.0	1.2	2.2 1.7	3.0	R 0.6	0.0	0.0	NA	NA	0.0	R 466
965	537.2	35.6	0.7	0.0	1.0	1.7	11.4	R 0.5 R 0.5 R 0.4	(s)	0.0	NA	NA	0.0	H 586
970	608.9	135.7	15.5	0.0	20.3	35.8 67.8	27.6	H 0.5	(s) 0.0	0.0	NA	NA	0.0	_ H 808
975 980 985	655.4 712.7	135.7 35.2 19.6 6.0	15.5 22.2 4.9 2.5 2.9 3.1	0.0	20.3 45.5 80.2	67.8	245.8	H 0.4	0.0	0.0	NA	NA	0.0 0.0 0.0	H 1,004
980	712.7	19.6	4.9	0.0 0.0	80.2	85.1 18.7	302.6 415.4	R 0.4 R 0.4 R 0.5 R 0.4	0.0 0.0	0.0	NA	NA	0.0	H 1,11
985	662.8	6.0	2.5	0.0	16.2	18.7	415.4	H 0.4	0.0	0.0	0.0	0.0	0.0	H 1,10
990 995	591.4 677.0	9.4 39.9	2.9	0.0 2.3	10.2 6.4	13.1	760.7	H 0.5	2.4 4.3	0.0	0.0	0.0 0.0	0.0 0.0	H 1,37
995	677.0	39.9	3.1	2.3	6.4	11.8	824.6	n 0.4	4.3	0.0	0.0	0.0	0.0	n 1,55
000	875.2	48.1	2.1 2.0 1.2	0.0	5.0	7.1	932.7	R 0.5 R 0.4 R 0.6	10.9	0.0	0.0	0.0 R 0.5 R 0.9 R 2.3 R 8.0	0.0	n 1,87
)05 )06	951.6 947.1	59.6 43.7	2.0	1.1 0.3	0.9 0.2	3.9 1.7	973.3	n 0.4	8.1 8.0	0.0	0.0 0.0	0.5	-0.1 (s) 0.2 0.1	n 1,99
006	947.1	43.7	1.2	0.3	0.2	1.7	982.5	n 0.6	8.0	0.0	0.0	0.9	(s)	n 1,98
)07 )08	988.3 1,003.2	64.0 35.2	1.5 1.5 1.3 1.1 0.9 0.8 0.8	0.0 0.0	0.1	1.6 1.6	1,004.1 994.5	R 0.5 R 0.5 R 0.5	8.3 9.5	0.0	0.0	n 2.3	0.2	n 2,06
JU8	1,003.2	35.2	1.5	0.0	0.1	1.6	994.5	0.5	9.5	0.0	0.0	₽ 8.0	0.1	2,05
009	937.1	33.8 46.6 48.4	1.3	0.0	(s) (s)	1.3 1.2 0.9	998.6	n 0.5	9.4	0.0	(s) R (s) R (s)	R 9.6	(s)	n 1,98
)10 )11	969.1 938.3	46.6	1.1	0.0	(s)	1.2	1,005.4	R 0.4 R 0.5	9.5	0.0	n (s)	R 15.2 R 21.2 R 26.4 R 32.8 R 34.4 R 36.7	(s)	n 2,04
111	938.3	48.4	0.9	0.0	0.0	0.9	1,002.7	0.5	8.2	0.0	_n (s)	<sup>n</sup> 21.2	(s)	2,01
12	852.8 912.5	90.3 53.0	0.8	0.0	0.0 0.0	0.8	1,010.2	R 0.4 R 0.4	8.2 8.1	0.0	R 0.1 R 0.2 R 0.2 R 0.2	n 26.4	(s) 0.0	n 1,98
13	912.5	53.0	0.8	0.0	0.0	0.8	1,014.9	n 0.4	8.1	0.0	n 0.2	n 32.8		n 2,02
14	905.5	43.1 85.5	1.0 0.6	0.0	0.0	1.0 0.6	1,023.5	0.4	8.1 7.1	0.0	<sup>n</sup> 0.2	n 34.4	0.0	2,01
15	905.5 761.5 619.8	85.5	0.6	0.0	0.0	0.6	1,017.4	R 0.4 R 0.4 R 0.4 R 0.4 R 0.5 R 0.4 R 0.5	/.1	0.0	n 0.2	n 36.7	0.0	n 1,90
16	619.8	148.8	0.8	0.0	0.0	0.8	1,031.3	0.4	6.7	0.0	0.2	36.4	0.0	n 1,84
17	600.6	145.4	0.6	0.0	0.0	0.6	1,016.5	0.4	6.1	0.0	R 0.2 R 0.2 R 0.2	R 36.4 R 41.8 R 40.6 R 49.3 R 55.3 R 65.3 80.1	(s) 0.1	n 1,80
)18 )19	621.9 510.4	142.8 176.5	0.6 0.6	0.0	0.0	0.6	1,025.7	n 0.5	6.5 6.3	0.0	n 0.2	11 40.6	0.1	n 1,83
)19	510.4	176.5	0.6	0.0	0.0	0.6	1,031.0	n 0.4	6.3	0.0	R 0.2 R 0.3	n 49.3	0.0	n 1,77
020	311.9 R 450.0 427.1	239.8	0.4	0.0	0.0	0.4	1,047.2	0.5	6.0	0.0	0.3	D 55.3	0.0	☐ 1,65
021 022	n 450.0	177.3 149.1	0.6 0.5	0.0 0.0	0.0 0.0	0.6 0.5	R 1,011.6 1,031.1	R 0.4 0.4	5.4 4.5	0.0 0.0	R 1.8 5.3	n 65.3	0.0 0.0	R 58 R 800 R 1,00 R 1,111 R 1,10 R 1,37 R 1,55 R 1,87 R 1,99 R 1,98 R 2,06 R 2,05 R 1,98 R 2,02 R 2,01 R 1,98 R 2,02 R 1,198 R 1,98 R 2,02 R 1,198 R 1
		1/0 1	0.5	0.0	0.0	0.5	1 031 1	0.4	15	0.0	5.3	80.1	0.0	1 60

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1984 acta include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Indiana

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				Mi	illion kilowatthoui	's	Thousan	d barrels
1960	32,592	212	25,707	5,751	1,316	43,595	13,076	18,365	107,809	0	100	0	NA	NA
1965	37,349	358	25,948	6,654	1,848	48,051	13,033	21,016	116,551	Ö	94	0	NA	NA
1970 1971	42,776 40,558	545 567	29,379 30,693	8,978 9,097	2,558 2,699	58,905 60,248	9,769 12,409	23,042 23,766	132,631 138.911	0	495 431	0	NA NA	NA NA
1972	45,121	577	34 399	10.430	2.818	63.465	14.458	23.433	138,911 149,004	0	385	0	NA	NA
1973 1974	47,256 44,869	542 532	34,928 33,071	10,679 11,249	2,851 2,585	66,082 64,300	15,652 18,213	25,377 24,265	155,569 153,682	0	480 445	0	NA NA	NA NA
1975 1976	46,210	477	32,655 35,662	12,335 14,526	2,619 2,623	64,639 67,324	15,007 19,594	21,137	148,392 160,052	Ö	444	Õ	NA	NA
1976 1977	46,316 48,318	425 398	35,662 37,113	14,526 16,458	2,623 2,676	67,324 67,441	19,594 20,910	20,323 21,822	160,052 166,421	0	479 374	0	NA NA	NA NA
1978	47,205	441	36,984	14,148	2.498	70,588	20,410	24,167	166,421 168,795	Ŏ	361	ő	NA	NA
1979 1980	50,998 50,485	504 489	36,102 30,795	9,475	2,588 2,151	65,370 60,192	18,116 14,615	21,629 18,587	153,280 134,300	0	438 474	0	NA NA	NA NA
1981	50,038	496	28.944	7,961 7,251	2.848	61.155	7.563	16,526	124.287	0	509	0	0	NA
1982 1983	44,243 48,340	468 427	28,851	6,828 6,870	4,361 4,395	56,476 57,442	4,680 3,005	15,168 16,788	116,364	0	428 418	0	287 1,220	NA NA
1984 1985	53,571	452 433	27,711 31,235 31,046	5.334	4,395 15,451	58,057	2,108	17,377	116,211 129,562 128,876	0	436	0	1,317	NA NA
1985	53,291	433	31,046	5,334 4,947	15,445	57,936	3,768	15,734	128,876	0	426	0	1.308	NA
1986 1987	50,643 51,385	395 413	31,775 32,651	6,143 6,094	18,611 19,141	59,993 63,316	4,308 3,594	16,398 19,570	137,227 144,365	0	506 507	0	1,452 1,670	NA NA
1988 1989	55.830	457 462	29 112	6.753	16,546 17,557	64.140	3,130 3,228	20,466 19,707	140,148 144,025	Ö	441	Ō	1,584 1,764	NA
1989 1990	57,388 61,701	462 451	33,719 32,957	8,113 9,563	17,557 17,889	61,701 61,930	3,228 3,827	19,707 22,270	144,025 148,436	0	450 441	0	1,764 1,507	NA NA
1991	60,790	451 457	32,194	9,563 9,508	17,228	61,302	3,220	19,562	148,436 143,014	0	399	0	1,507 1,790	NA
1992 1993	58,765 60,353	483 518	31,297 32,402	7,045 7,778	16,001 16,366	61,975 65,531	4,066 2,887	21,045 21,954	141,430 146,916	0	562 448	0	1,706 1,788	NA NA
1994	59,996	519	33,660	7 134	17.299	66,838	3.000	23.655	151.586	0	407	0	1.760	NA
1995	62,631	535 573	33,345 34,713	6,788 8,555	17 344	70,100	1,833	19,728	151,586 149,138 149,727	0	467	0	2,222	NA
1996 1997	64,021 66,051	573 557	34,713 36,839	8,555 7,379	12,576 10,996	69,578 69,828	1,328 1,478	22,978 23,613	149,727 150 132	0	448 562	0	1,132 1,519	NA NA
1998	66,480	522	36,727	5 346	9,656	74.133	1 162	22,559	150,132 149,582	Ö	479	Ō	1.447	NA
1999 2000	67,364 72,273	557 571	39,274 40,117	6,730 8,429	11,198 14,006	72,552 73,878	562 767	25,199 20,484	155,515 157,680	0	407 588	0	2,537 2,832	NA NA
2001	71,082	502	32,921 42,161	6,230 8,632	11,763 10,778	75,199 74,297	564	21 945	148,622 158,275	0	571	0	2,637 2,996	9
2002	71,082 71,312	539	42,161	8,632	10,778	74,297	419	21,990	158,275	0	411	0	2,996	14
2003 2004	72,156 73,665	527 527	46,511 41,160	9,013 8,171	9,358 8,558	76,844 77,109	453 809	22,262 24,900	164,440 160,707	0	424 444	0	3,210 3,245	11 22
2005	72.834	531	43.742	6,899 6,425	6.950	77,008	858	24.183	159 639	Ō	438	Ö	3.659	11 22 76 217
2006 2007	72,937 72,720	496 536	43,808 43,154	6,425 7,474	7,865 7,450	77,103 76,610	1,101 605	23,834 22,068	160,135 157,360	0	490 450	0	3,870 4,734	217 294
2008	72,303	551	39,994	7,670	6.263	74,157	738 237	20,177	148,999 144,944	ŏ	437	238	6,374	253 268
2009 2010	63,769	507 574	34,803	8,122	7,452 3,795	74,121	237	20,208	144,944	0	503	1,403	7.036	268
2010	67,253 62,001	574 631	36,831 38,841	6,827 6,768	3,795 3,890	74,911 71,755	204 250	17,135 16,660	139,703 138,165	0	454 409	2,934 3,285	6,916 6,872	216 737
2012	54,571	650 673	38,197	5 426	3 859	71,309	225 147	14,201	133,217	Ō	434 387	3,210	7,115	712 1,226
2013 2014	54,324 55,344	673 713	41,304 43,724	6,572 6,378	3,886 4,246	72,351 72,242	144	16,891 16,608	133,217 141,152 143,342 145,822 R 141,764	0	387 371	3,481 3,496	7,115 7,452 7,335 7,161	1,226 1 178
2015	55,344 45,237	719	43,724 42,580 40,752	5,167	4,246 4,525 4,794	72,242 74,817	169 277	18,564 R 15,493	145,822	Ö	371 381 426	4,515	7,161	1,178 1,015 1,440
2016 2017	42,214 41,315	754 720	40,752	4,802 4,646	4,794	75,646 75,418	277 579	H 15,493 B 14,641	H 141,764	0	426 306	4,899 5,089	7.257	1,440
2018	44,792	720 854	37,268 37,424	5,545	4,358 4,519	73,784	578 233	R 14,641 R 15,808	R 136,908 R 137,314	0	306 223	5,437	7,328 7,080	1,114 993 R 816
2019	36,719	891 R 832	38.622	6.166	4,663 3,302	72,285 66,416	270	H 16 436	H 138 444	0	256 271	6,216	7,074 6,689	R 816
2020 2021	29,188 33,259	R 832	36,015 R 38,584	5,831 5,516	4.393	66,416 72,496	211 363	R 15,598 R 16,944	R 127,372 R 138,295	0	271 387	6,288 7,857	6,689 7,354	1,018 R 926
2022	31,851	871	38,372	5,833	3,929	71,273	372	15,849	135,627	ŏ	371	9,985	7,354 7,253	920

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Indiana (trillion Btu)

						fuels						Fossil fuels	
						Petroleum					]	(as commingled)	<del></del>
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	794.9	219.8	149.7 151.1 171.1 178.8 200.4 203.5 192.6	22.0	7.1	229.0	82.2	110.6	600.7	1,615.4 1,905.5 2,286.6 2,281.9	219.8	149.7	229.0 252.4 309.4 316.5
1960 1965 1970	900.6	357.5	151.1	25.5 34.2	10.2	229.0 252.4 309.4 316.5	82.2 81.9	126.3 140.7 146.4	647.4 731.1 769.3 823.8	1,905.5	357.5 548.6 570.4	151.1 171.1	252.4
1970	1,006.8 942.3	548.6	171.1	34.2	14.2 15.0	309.4	61.4	140.7	731.1	2,286.6	548.6	171.1	309.4
1971	942.3	570.4	178.8	34.6	15.0	316.5	78.0	146.4	769.3	2,281.9	570.4	178.8	316.5
1972	1,050.9	580.4	200.4	39.7	15.7 15.9 14.4	333.4 347.1 337.8	90.9	143.8 156.7 149.9	823.8	2,455.1 2,501.2 2,419.9	580.4 541.2 530.3	200.4 203.5 192.6	333.4 347.1 337.8
1973 1974	1,097.9 1,038.1	541.2 530.3	203.5 102.6	40.5 42.3	15.9	347.1 337.8	98.4 114.5	100.7	862.1 851.6	2,501.2	541.2	203.5 102.6	347.1 337.8
1974	1,036.1	472 6	192.0	42.3 46.0	14.4	337.6 339.6 353.7 354.3 370.8 343.4 316.2 321.2 296.7 301.7	94.3	149.9	81 <i>4</i> 7	2,419.9	472.6	192.0	337.6 339.6
1975 1976	1,061.2 1,062.9	472.6 421.0	207.7	46.0 53.8	14.6 14.6	353.7	94.3 123.2	124.4	877.4	2,348.4 2,361.3	472.6 421.0	190.2 207.7	339.6 353.7
1977	1 110 0	394.3	216.2	60 1	14 9	354.3	131.5	133.9	910.9	2,415.1	394.3	216.2	354.3
1978	1,074.6	436.1 499.3	190.2 207.7 216.2 215.4 210.3 179.4 168.6 168.1 161.4 181.9 180.8 185.1 190.2 169.6 196.4 192.0 187.5 182.3	51.8 34.9	14.0	370.8	131.5 128.3	129.9 124.4 133.9 149.2 133.8 114.0 103.5 95.1	814.7 877.4 910.9 929.6 850.8	2,415.1 2,440.3	394.3 436.1 499.3	215.4 210.3	354.3 370.8 343.4 316.2 321.2 296.7 301.7
1979	1 171 6	499.3	210.3	34.9	14.5 12.0 15.9	343.4	113.9	133.8	850.8	2.521.8	499.3	210.3	343.4
1980	1,157.0 1,150.6 1,007.2	482.3 487.9	179.4	29.3 26.7	12.0	316.2	91.9	114.0	742.8 683.5	2,382.0 2,321.9	483.9 492.9	179.4 168.6	316.2
1981	1,150.6	487.9	168.6	26.7	15.9	321.2	47.5	103.5	683.5	2,321.9	492.9	168.6	321.2
1982 1983	1,007.2	471.8 425.2	165.1	24.9 25.2	24.5 24.7	296.7	29.4 18.9	95.1	638.6 636.5	2,117.5 2,166.8	475.3 429.3	168.1 161.4	290.7
1984	1,209.5	425.2 451.4	181.4	19.7	87.4	301.7 305.0	10.9	107.8	715.0	2,100.0	429.5	101.4 181 Q	301.7 305.0
1985	1 193 3	451.4 433.7 396.4	180.8	18.1	87.4	304.3	13.3 23.7 27.1	98.0	712.4	2,375.9 2,339.4 2,284.5	436.4	180.8	305.0 304.3 315.1
1985 1986	1,193.3 1,130.1	396.4	185.1	18.1 22.5	87.4 105.3	315.1	27.1	102.9	758.0	2,284.5	398.7	185.1	315.1
1987	1,166.6 1,267.2	412.4 459.4	190.2	22.6 25.0	108.3 93.6	332.6	22.6 19.7	122.3	798.6	2,377.5 2,498.4	416.3	190.2	332.6 336.9
1988	1,267.2	459.4	169.6	25.0	93.6	305.0 304.3 315.1 332.6 336.9 324.1 325.3 322.0 325.6 335.7 342.4 357.1 358.6	19.7	98.0 102.9 122.3 126.9	715.0 712.4 758.0 798.6 771.8	2,498.4	455.5 436.4 398.7 416.3 463.7	181.9 180.8 185.1 190.2 169.6	336.9
1989	1,292.6	465.9	196.4	30.2	99.3	324.1	20.3 24.1	121.8	792.2	2,550.7	469.4	196.4	324.1
1990	1,361.8 1,339.0	456.0 460.6	192.0	34.7	101.3 97.5	325.3	24.1	121.8 138.7 121.6	792.2 815.9 783.3	2,633.7 2,582.8	469.4 459.1 463.7	196.4 192.0 187.5	325.3 322.0
1991	1,339.0	460.6 485.3	187.5	34.4 26.0	97.5	322.U 325.6	20.2	121.0	783.3 770.4	2,582.8	403.7 188.8	187.5 182.3	322.U 325.6
1992 1993	1,291.1 1,319.9	485.3 521.2	188 7	28.5	90.5 92.7	325.0	25.6 18.1	129.5 137.4	779.4 801.2	2,555.8 2,642.3	524 5	182.3 188.7	325.6 341.9
1994	1 297 2	523.5	195.9	26.5	98.0	342 4	18.9	148 1	829.7	2 650 4	526.0	195.9	348.5
1994 1995	1,297.2 1,344.4 1,374.5	523.5 538.4	194.1	26.5 25.2	98.0 98.3	357.1	11.5	148.1 122.6 142.9	829.7 808.9 815.0	2,650.4 2,691.7	541.6	195.9 194.1 202.0	364.8
1996	1,374.5	576.3	202.0	31.9	71.3	358.6	8.3	142.9	815.0	2.765.8	579.5	202.0	362.6
1997	1,423.5 1,448.0	559.1 527.4 558.2 576.1	214.4	27.8	62.3	358.2	9.3 7.3 3.5 4.8	147.1	819.1 816.3 844.7 850.0	2,801.8	488.8 524.5 526.0 541.6 579.5 562.8 530.6	214.4 213.7 228.5 233.4 191.6	348.5 364.8 362.6 363.5 385.7
1998	1,448.0	527.4	213.7	20.2	54.7	380.7	7.3	139.7	816.3	2,791.7	530.6	213.7	385.7
1999	1,477.2	558.2	228.5	25.3	63.5 79.4	368.6	3.5	155.3 126.6	844.7	2,880.1 3,021.2	567.0 584.8	228.5	377.4 384.2 391.1
2000 2001	1,595.0	5/6.1 505.3	233.4	31.4 23.2	79.4 66.7	3/4.4	4.8	126.6 134.9	850.0 801.9	3,021.2 2,876.4	584.8	233.4	384.2
2001	1,569.2 1,547.5	538.4	245.3	20.2 30 1	61.1	302.0 375.0	2.5	134.9	852 6	2,938.5	513.8 543.3 572.9	245 3	386 3
2003	1 570 7	566.8	270.6	32.1 33.6	53.1	388.2	2.8	135.5 137.5	852.6 885.9	3 023 4	572.9	245.3 270.6	399 4
2004	1.614.2	526.4	239.5	30.3	48.5	389.4	5.1	152.2	865.0	3.005.6	531.4	239.5	400.7
2004 2005	1,614.2 1,594.4	526.4 535.5	195.9 194.1 202.0 214.4 213.7 228.5 233.4 191.6 245.3 270.6 239.5 254.5 254.5 249.6 231.2 211.3 220.6 211.3	30.3 25.6	48.5 39.4	358.2 380.7 368.6 374.4 382.0 375.9 388.2 389.4 387.1	3.5 2.6 2.8 5.1 5.4	152.2 147.7	865.0 859.7	3,005.6 2,989.6	531.4 540.7	239.5 254.5 254.2 249.6 231.2	386.3 399.4 400.7 399.8
2006 2007	1 587 1	499 8	254.2	23.7 27.6 28.9	44 6	386.4	6.9 3.8 4.6	144 7	860.4 834.6 778.5	2,947.3 2,950.5 2,892.1	504.7 547.6 558.6	254.2	399.8 393.9 378.6
2007	1,572.1 1,558.1	543.8 555.5	249.6	27.6	42.2 35.5	377.5	3.8	133.9	834.6	2,950.5	547.6	249.6	393.9
2008	1,558.1	555.5	231.2	28.9	35.5	356.5	4.6	121.8	778.5	2,892.1	558.6	231.2	378.6
2009 2010	1,365.4 1,449.4	511.3 577.4	199.2	30.1 26.2	42.3 21.5	352.9	1.5	121.8	747.7 719.8	2,624.4 2,746.6	514.5 580.8	201.1 212.7	377.3 379.6
2010	1,449.4	577. <del>4</del> 635.1	211.3	26.2 26.0	21.5 22.1	333.0 339.5	1.3 1.6	121.8 103.9 101.3 86.8	719.0 711.0	2,740.0 2,679.5	638.2	212.7 224 1	379.0 363.3
2012	1,333.4 1,193.5	635.1 654.5	216.6	20.8	22.1 21.9	336.3	1.4	86.8	683.8	2,679.5 2,531.8	638.2 657.7	224.1 220.3	363.3 361.0
2013	1 198 6	680.1	230.6	25.2	22.0	340.2	0.9	102.5	721.5	2 600 2	682.8	238.0	366.1
2014	1,221.5	680.1 723.9	230.6 234.6 237.9 225.0 206.7	25.2 24.5	22.0 24.1	386.4 377.5 356.5 352.9 355.6 339.5 336.3 340.2 340.0 353.5 357.2 355.6 348.2 340.6 312.3	0.9 0.9	102.5 100.8	719.8 711.0 683.8 721.5 734.9 750.4 726.4 R 700.7 R 704.0 R 710.6 R 652.6 R 711.0	2 680 3	727.0	238.0 252.0 245.3 234.6 214.6	366.1 365.5 378.3 382.4 381.1
2015	1.007.5	735 1	237.9	19.8	25.7	353.5	1.1		750.4	2,492.9 R 2,454.8 R 2,377.9	720 1	245.3	378.3
2016 2017	948.4 929.3	779.9 747.9	225.0	18.4 17.8	27.2 24.7	357.2	1.7 3.6	96.8	726.4	H 2,454.8	782.9 751.4 894.2 937.4 R 876.6	234.6	382.4
2017	929.3	/4/.9	206.7	17.8	24.7	355.6	3.6	n 92.3	P 700.7	R 2,377.9	/51.4	214.6	381.1
2018 2019	985./ 921 F	890.4	208.5	21.3 23.7	25.6 26.4	348.2	1.5	R 102 5	/U4.U R 710.6	R 2,580.1	894.2	215.5	3/2.9 365.2
2019	985.7 821.5 669.3	890.4 934.2 8 873.3	200.7	23.7 22.4	26.4 18.7	312.3	1.5 1.7 1.3	R 97 6	R 652 6	R 2,580.1 R 2,466.3 R 2,195.2	R 876 6	215.5 222.4 207.3	372.9 365.2 335.5
2021	753.6	R 869.3	R 219.1	21.2	24.9	340.5	2.3	R 105.8	R 711.0	R 2,333.9	R 872.6	R 222.4	366 1
2021 2022	753.6 719.2	913.4	208.5 215.7 200.3 R 219.1 218.0	22.4	24.9 22.3	340.5 334.6	2.3	P6.8 P92.3 R 98.9 R 102.5 R 97.6 R 105.8 99.6	696.3	2,329.0	916.6	221.2	366.1 359.9

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Indiana (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 0.3	23.5	NA	NA	NA	NA	23.5	0.0	NA	NA	R 23.8	R -136.0	0.0	R 1,503.2 R 1,762.2 R 2,171.7
1965 1970	0.0 0.0	R 0.3 R 1.7 R 1.5	22.1 23.3 22.6	NA NA	NA NA	NA NA	NA NA	22.1 23.3	0.0 0.0	NA NA	NA NA	R 22.4 R 25.0 R 24.1 R 28.1	R-136.0 R-165.7 R-139.8 R-121.4 R-99.6 R-108.8 R-77.4 R-62.4 R-44.7 R-14.1	0.0 0.0	H 1,762.2
1971	0.0	R 1.5	22.6	NA NA	NA	NA NA	NA	22.6	0.0	NA	NA	R 24.1	R <sub>-121.4</sub>	0.0	R 2,184.6 R 2,383.7
1972	0.0	R13	26.8	NA	NA	NA	NA	26.8	0.0	NA	NA	R 28.1	R -99.6	0.0	R 2,383.7
1973 1974	0.0 0.0	R 1.6 P 1.5	27.1 27.4	NA NA	NA NA	NA NA	NA NA	27.1 27.4	0.0 0.0	NA NA	NA NA	R 28.8 R 28.9	n -108.8 R -77 4	0.0 0.0	R 2,421.1 R 2,371.4
1975	0.0	H15	26.7	NA	NA	NA	NA	26.7	0.0	NA	NA	H 28 2	R -62.4	0.0	R 2,314.3 R 2,349.3 R 2,437.2 R 2,477.0
1976 1977	0.0 0.0	H16	31.0 34.9	NA NA	NA NA	NA NA	NA NA	31.0 34.9	0.0	NA NA	NA NA	R 32.7 P 36.1	R -44.7	0.0 0.0	R 2,349.3
1977	0.0	R 1.3 R 1.2	34.9 42.1	NA NA	NA NA	NA NA	NA NA	34.9 42.1	0.0 0.0	NA NA	NA NA	R 43.3	N-14.1 R-66	0.0	R 2,437.2
1979	0.0	H 1 5	47.3	NA	NA	NA	NA	47.3	0.0	NA	NA	R 48 8		0.0	n 2 527 0
1980 1981	0.0 0.0	R 1.6 R 1.7	51.2 53.9	NA 0.0	NA NA	NA NA	NA 0.0	51.2 53.9	0.0 0.0	NA NA	NA NA	R 52.8 R 55.6	R -91.3 R -71.3	0.0 0.0	R 2,343.5 R 2,306.3
1982	0.0	H15	53.9 53.6	1.0	NA NA	NA NA	0.0	54.6	0.0	NA NA	NA NA	H 56 1	R -58.8 R -103.2 R -227.3 R -161.0 R -148.1 R -120.4	0.0	R 2.114.8
1983	0.0	R 1.4 R 1.5 R 1.5	53.6 59.3	4.2	NA	NA	0.0	63.5	0.0	NA	0.0	R 65.0	R -103.2	0.0	R 2,114.8 R 2,128.5
1984 1985	0.0 0.0	<sup>n</sup> 1.5	56.0 56.7	4.6 4.5	NA NA	NA NA	0.0 4.0	60.6 65.2	0.0 0.0	0.0 0.0	0.0 0.0	R 62.0 R 66.7	R -161 0	0.0 0.0	R 2,210.7 R 2,245.0 R 2,204.8 R 2,330.4
1986 1987	0.0	R 1.7 R 1.7	57 4	5.0	NA	NA NA	4.0	66.7	0.0	0.0 0.0 0.0	0.0	R 68.4 R 73.2	R -148.1	0.0	R 2.204.8
1987	0.0	R 1.7	61.1	5.8	NA	NA	4.2 4.6	71.5	0.0	0.0	0.0	R 73.2	R -120.4	0.0 0.0	R 2,330.4
1988 1989	0.0 0.0	R 1.5 R 1.5	65.5 54.4	5.5 6.1	NA NA	NA NA	4.6 4.3	75.6 64.8	0.0 0.5	0.0 (s)	0.0 0.0	R 77.1 R 66.8	R -135.9 R -155.8 R -204.9 R -173.2	0.0 0.0	R 2,439.5 R 2,461.7 R 2,486.5 R 2,468.7
1990	0.0	R 1.5 R 1.4	46.9	5.2 6.2	NA NA	NA NA	3.6	55.7 57.2	0.5	(s)	0.0	R 57.7 R 59.1	R -204.9	0.0	R 2,486.5
1991	0.0	R 1.4	46.8	6.2	NA	NA	4.2	57.2	0.5	(s)	0.0	R 59.1	R -173.2	0.0	R 2,468.7
1992 1993	0.0 0.0	R 1.9 R 1.5	47.0 38.1	5.9 6.2	NA NA	NA NA	3.7 4.0	56.6 48.3	0.6 0.6	(s) (s)	0.0 0.0	11 59.1 R 50.5	" -158.4 R -126.3	0.0 0.0	11 2,456.6 R 2 566.5
1994	0.0	H 1 /	38.1 36.3	6.1	NA	NA	4.4	48.3 46.9	0.7	(s)	0.0	R 59.1 R 50.5 R 49.0	R -158.4 R -126.3 R -146.3 R -124.8 R -112.4 R -165.0	0.0	R 2,456.6 R 2,566.5 R 2,553.1 R 2,618.4
1995	0.0 0.0	R 1.6	37.2	7.7	NA	NA	4.2	49.1 44.3	0.7	(s)	0.0 0.0	H 51 5	H -124.8	0.0	H 2,618.4
1996 1997	0.0	R 1.5 R 1.9	38.6 32.2	3.9 5.3	NA NA	NA NA	1.7 3.0	40.4	0.8 0.9	(s) (s)	0.0	R 46.6 R 43.2	R -165.0	0.0 0.0	R 2,700.0 R 2,679.9
1998	0.0	R 1 6	30.2	5.0	NA	NA	3.5	38.7	0.9	(s)	0.0	H 41 3		0.0	H 2 670 1
1999 2000	0.0 0.0	R 1.4 R 2.0	30.4 28.0	8.8 9.8	NA NA	NA NA	3.2 3.8	42.4 41.6	1.0 1.0	(s) (s)	0.0 0.0	R 44.8 R 44.7	R -144.1 R -202.0 R -158.6 R -137.4	0.0 0.0	R 2,780.8 R 2,863.9
2001	0.0	H19	26.0 32.7	9.0	(s)	NA NA	3.6 4.2	46.1	1.0	(s)	0.0	H 49 2	R -158.6	0.0	R 2,767.0
2002	0.0	H 1 4	32.7 33.8	10.4	(s) 0.1	NA	5.6	46.1 49.9	1.2	(s)	0.0	H 52 6	R -137.4	(s)	R 2,767.0 R 2,853.6
2003 2004	0.0 0.0	R 1.4 R 1.5	33.8 34.6	11.1 11.3	0.1 0.1	NA NA	6.5 5.8	51.6 51.8	1.6 1.8	(s) 0.1	0.0 0.0	R 54.6 R 55.2	H -143.4 R -133.2	(s) 0.0 0.0	R 2,934.7 R 2,927.6
2005	0.0	R 1.5 R 1.7	38.7	12.7	0.4	NA NA	5.5	57.3	2.0	0.1	0.0	H 60.9	H -137.4 R-143.4 R-133.2 R-129.0 R-142.9 R-59.4 R-73.7 R-30.2 R-42.4 R-11.2 R 59.9 R 103.9 R 103.9	(s)	R 2,921.6 R 2,856.9
2006	0.0	R 1.7	28.3	13.4	1.2 1.6	NA	5.5	48.3 60.3	2.3 2.7	0.1	0.0	R 52.4	R <sub>-</sub> 142.9	(s) 0.1	R 2,856.9
2007 2008	0.0 0.0	R 1.5 R 1.5	27.3 33.5	16.4 22.1	1.6 1.4	NA NA	15.0 32.4	60.3 89.4	2.7 3.2	0.1 0.1	0.0 R 0.8	R 64.7 R 95.0	n -59.4 R -73.7	-0.1 -0.3	R 2,955.7 R 2,913.0 R 2,700.7 R 2,831.1
2009	0.0	R 1.7 R 1.5	31.5	24.4	1.4	NA	38.7	96.0	3.9	0.1	R 4.8 R 10.0 R 11.2	R 106 6	R -30.2	-0.1	R 2,700.7
2010	0.0	R 1.5 R 1.4	33.9	24.0	1.2	NA	51.6	110.7	4.4	0.1	R 10.0	H 126 8	R -42.4	(s) (s)	R 2,831.1
2011 2012	0.0 0.0	<sup>n</sup> 1.4 R 1.5	33.5	23.8	4.0 3.8	0.0 0.0	54.2 46.3	115.5 105.2	4.5 4.6	R 0.1	<sup>n</sup> 11.2 R 11.0	R 132.7 R 122.4	R 50 0	(s) 0.1	R 2,801.1 R 2,714.1
2013	0.0	R 1.5 P 1.3	30.4 34.4	24.7 25.9	6.6	0.0	49.1	115.9	4.6	0.2 R 0.3 R 0.5 R 0.7	P 11.9	H 134.0	R_103.9	0.2	R 2,838.3 R 2,880.3
2014	0.0	R 1.3	34.8	25.5	6.3	0.0	53.7	120.3	4.6	H 0.5	H 11.9	R 138.7 R 143.4	R 61.2	0.2	H 2,880.3
2015	0.0 0.0	R 1.3 R 1.5	34.6 34.3	24.9 25.2	5.4 7.7	0.0 0.0	56.5 60.4	121.4 127.6	4.6 4.6	R 1 0.7	115.4 R 16.7	P 151.4	H 146.9	0.4	H 2,783.6
2016 2017	0.0	H 1.0	34.3 33.7	25.2 25.5	6.0	0.0	61.3	126.4	4.6	R 1.0 R 1.2	R 11.0 R 11.9 R 11.9 R 15.4 R 16.7 R 17.4	<sup>H</sup> 150.7	R 146.9 R 124.9 R 100.6 R 31.5 R 114.8	(s) (s) 0.2	R 2,783.6 R 2,731.2 R 2,629.3
2018	0.0	R 0.8 R 0.9	37 1	24.7	5.3	0.0	63.1	130.2	4.6	R 1.5 R 1.7		R 155.7 R 149.4	H 31.5	0.2	H 2 767 5
2019 2020	0.0 0.0	R 0.9	36.2 R 33.2	24.6 23.3	4.4 5.5	0.0 0.0	55.8 51.2	121.0 R 113.1	4.6 4.6	H 1.7	R 21.2 R 21.5 R 26.8	R 149.4 R 142.1	114.8 R 165.6	0.0 0.0	R 2,730.5
2021	0.0	R 1.3	R 34.0	25.6	5.0	0.0	60.7	R 113.1 R 125.2	4.6	R 1.9 R 2.9	R 26.8	R 160.8	R 165.6 R 157.1	0.0	R 2,730.5 R 2,502.9 R 2,651.8
2022	0.0	1.3	31.7	25.3	4.9	0.0	63.6	125.5	4.6	4.8	34.1	170.3	119.6	0.0	2,618.9

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Indiana

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrel	s			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	19,109	204	25,577	5,751	1,316	43,595	12,973	18,365	107,577	(s)					17,498			
1970	20,127	516	29,122	8,978	2,558	58,905	9,565	22,787	131,915	0					37,960			
1980	16,821	487	30,065	7,961	2,151	60,192	14,615	18,587	133,570	0					60,415			
1990 2000	14,047 12,842	444 556	32,534 39,587	9,563 8,429	17,889 14,006	61,930 73,878	3,827 767	21,314 19,310	147,057 155,977	0					73,982 97,775			
2005	12,823	496	43,419	6,899	6,950	77,008	858	23,993	159,126	0					106,549			
2006	12,355	469	43,540	6,425	7,865	77,103	1,101	23,834	159,868	0					105,664			
2007	11,965	498	42,870	7,474	7,450	76,610	605	22,068	157,076	0					109,420			
2008	11,132	517	39,686	7,670	6,263	74,157	738	20,177	148,691	0					106,981			
2009 2010	9,320 10,904	470 513	34,553 36,574	8,122 6,827	7,452 3,795	74,121 74,911	237 204	20,190 17,135	144,677 139,446	0					99,312 105,994			
2011	9,297	545	38,552	6,768	3,890	71,755	250	15,229	136,444	0					105,818			
2012	7,876	535	37,988	5,426	3,859	71,309	225	13,179	131,986	0					105,173			
2013	7,654	592	41,058	6,572	3,886	72,351	147	15,176	139,191	0					105,487			
2014	6,761	631	43,415	6,378	4,246	72,242	144	14,756	141,181	0					106,943			
2015 2016	6,131 6,129	591 580	42,317 40,561	5,167 4,802	4,525 4,794	74,817 75.646	169 277	16,631 R 14,700	143,625 R <sub>140,780</sub>	0					104,515 103,705			
2017	5,763	588	37,068	4,646	4,754	75,418	578	R 14,641	R 136,709	0					98,966			
2018	5,648	658	37,210	5,545	4,519	73,784	233	R 15,808	R 137,100	0					104,194			
2019	5,720	669	38,388	6,166	4,663	72,285	270	R 16,436	R 138,210	0					102,104			
2020	5,154	602 R 621	35,788 R 38,304	5,831	3,302	66,416	211	R 15,598	R 127,145	0					97,156			
2021 2022	5,531 5,018	640	38,304	5,516 5,833	4,393 3,929	72,496 71,273	363 372	<sup>R</sup> 16,944 15,849	R 138,015 135,394	4					99,740 100,044			
									Trillion	Btu								
1960	489.7	210.7	149.0	22.0	7.1	229.0	81.6	110.6	599.3	(s)	23.5	NA	NA	NA	59.7	1,382.8	R 120.4	R 1,503.2
1970	507.9	519.0	169.6	34.2	14.2	309.4	60.1	139.2	726.8	0.0	23.3	NA		NA	129.5	1,906.4	R 265.3	R 2,171.7
1980	428.7	482.0	175.1	29.3	12.0	316.2	91.9	114.0	738.5	0.0	51.2	NA		NA	206.1	1,905.0	R 438.5	R 2,343.5
1990 2000	355.1 335.8	452.4 570.1	189.5 230.4	34.7 31.4	101.3 79.4	325.3 384.2	24.1 4.8	132.9 119.5	807.7 849.7	0.0	46.9 26.9	3.6 3.8		(s) (s)	252.4 333.6	1,920.9 2,112.5	<sup>R</sup> 565.6 <sup>R</sup> 751.4	R 2,486.5 R 2,863.9
2005	322.7	504.7	252.6	25.6	39.4	399.8	5.4	146.6	869.5	0.0	38.5	5.5		0.1	363.5	2,102.1	R 819.5	R 2,921.6
2006	310.1	477.1	252.7	23.7	44.6	399.8	6.9	144.7	872.3	0.0	26.1	5.5		0.1	360.5	2,050.5	R 806.4	R 2,856.9
2007	300.9	509.2	248.0	27.6	42.2	393.9	3.8	133.9	849.4	0.0	25.0	15.0		0.1	373.3	2,073.8	R 882.0	R 2,955.7
2008	281.5	523.8	229.4	28.9	35.5	378.6	4.6	121.8	798.8	0.0	30.4	32.4		0.1	365.0	2,033.7	R 879.3 R 811.6	R 2,913.0 R 2,701.1
2009 2010	232.5 275.0	477.5 519.0	199.6 211.2	30.1 26.2	42.3 21.5	377.3 379.6	1.5 1.3	121.7 103.9	772.4 743.8	0.0	28.5 30.7	38.7 51.6		0.1 0.1	338.9 361.7	1,889.5 1,983.4	R 848.0	112,701.1 R 2,831.3
2010	241.3	552.0	222.4	26.0	22.1	363.3	1.6	93.1	728.5	0.0	29.9	54.2		R 0.1	361.1	1.969.0	R 831.7	R 2,800.7
2012	220.1	541.1	219.1	20.8	21.9	361.0	1.4	80.9	705.1	0.0	27.0	46.3	4.6	0.2	358.9	R 1,900.6	R 813.4	R 2,714.0
2013	214.2	600.3	236.6	25.2	22.0	366.1	0.9	92.7	743.6	0.0	30.6	49.1	4.6	0.2	359.9	H 2,000.0	H 839.1	R 2,839.2
2014	187.9	642.2	250.2	24.5	24.1	365.5	0.9	90.2	755.3	0.0	31.1	53.7		0.2	364.9	R 2,037.2	R 844.2	R 2,881.4
2015 2016	170.8 170.5	604.5 600.3	243.8 233.5	19.8 18.4	25.7 27.2	378.3 382.4	1.1 1.7	101.4 92.3	770.2 R 755.6	0.0	30.5 30.4	56.5 60.4		R 0.2 R 0.2	356.6 353.8	1,991.4 R 1,973.6	R 794.3 R 759.4	R 2,785.7 R 2,733.0
2016	160.4	611.5	213.4	17.8	24.7	381.1	3.6	R 92.3	R 733.0	0.0	29.3	61.3		R <sub>0.3</sub>	337.7	R 1,935.3	R 695.9	R 2,631.2
2018	157.4	688.0	214.3	21.3	25.6	372.9	1.5	R 98.9	R 734.5	0.0	32.7	63.1		R <sub>0.5</sub>	355.5	R 2,033.5	R 735.7	R 2,769.2
2019	159.3	703.4	221.1	23.7	26.4	365.2	1.7	R <sub>102.5</sub>	<sup>R</sup> 740.6	0.0	31.7	55.8	4.6	R 0.6	348.4	R 2,042.1	R 690.8	R 2,732.9
2020	145.1	R 633.2	206.0	22.4	18.7	335.5	1.3	R 97.6	R 681.6	0.0	R 28.8	51.2		R 0.7	331.5	R 1,874.3	R 630.1	R 2,504.4
2021	156.0 139.2	R 655.8 671.9	R 220.8 219.9	21.2 22.4	24.9 22.3	366.1 359.9	2.3 2.3	R 105.8	R 741.1	0.0	R 29.8	60.7 63.6		R <sub>0.9</sub>	340.3	R 1,986.9	R 666.1 646.1	R 2,653.0 2,620.1
2022	139.2	0/1.9	219.9	22.4	22.3	309.9	2.3	99.6	726.4	(s)	28.2	03.0	4.6	1.1	341.4	1,974.0	040.1	2,020.1

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Indiana

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	1,251	76 114	8,536	3,477	3,370	15,383				6,371			
1965	618	114	8,146	4,096	2,498	14,740				8,651			
1970	393	159	8,027	6,475	1,837	16,339				13,488			
1975 1980	270 47	163 164	8,647 5,398 2,656	6,838 3,438	717 492	16,202 9,328				16,375 19,262			
1985	115	146	2.656	2,401	466	5,522				19,803			
1990	110	140	1,997	3,585	278	5.860				22,111			
1995	37	161	1,476	3,866	215	5,557 6,511				26,560			
2000	30	161	976	5,176	359 262 174	6,511				28,649			
2005 2006	21 5	149 128	898 613	3,909 3,431	262	5,070				33,629 32,286			
2006	18	143	477	4,323	174	4,218 4,929				32,200 34,646			
2008	0	153	591	5,248	129 71	5,909				33,980			
2009	Ŏ	140	304	5,003	129 105	5,436				32,548			
2010	0	138	259	5,003 4,505	105	4,869				35.058			
2011	0	132	277	4,330	64	4,671				33,912			
2012	0	116	238	3,098	18	3,354				32,964			
2013 2014	0	144 157	213	3,665 3,713	23	3,901				33,407			
2014	0	133	207 214	3,713	41 29	3,961 3,275				33,704 32,442			
2016	0	125	158	2,899	42	3.099				33.026			
2017	ő	124	164	2,802	20	2,986				31,552			
2018	0	144	200	3.520	18	3.738				34.575			
2019	0	143	222	3,744	26 22	3,993				33,249			
2020 2021	0	134	184 204	3,319 3,166	22 25	3,525 3,395				32,878			
2021	0	131 144	213	3,132	23	3,368				33,472 34,058			
			2.0	3,132		0,000	Trillion Btu			0.,000			
1000		70.7	40.7	40.4	40.4					21.7	000.4	R 43.8	B 074 0
1960	30.1	78.7 114.2	49.7	13.4 15.7	19.1 14.2	82.2	15.4 11.6	NA NA	NA NA	21.7	228.1 247.5	P 43.8 P 58.1	R 271.9
1965 1970	14.8 9.1	159.7	47.5 46.8	24.9	10.4	77.3 82.0	11.3	NA NA	NA NA	29.5 46.0 55.9	247.5 308.1	R 94.3	R 305.6 R 402.4 R 429.1 R 440.0 R 406.9 R 432.6 R 492.3 R 515.8 R 559.8 R 516.1 R 577.5 R 589.7
1975	6.0	161.2	50.4	26.3	4.1	80.7	11.2	NA	NA	55.9	315.0	R 114 1	R 429 1
1980	1.0	161.9	31.4	13.2	2.8	47.4	24.7	NA	NA	65.7	300.2	R 114.1 R 139.8	R 440.0
1985	2.6	147.4	15.5	9.2	2.6	27.3	25.7	NA	NA	67.6	269.6	R 137.3 R 169.1	R 406.9
1990	2.5	143.1	11.6	13.8	1.6	27.0	16.0	0.5	(s) (s)	75.4	263.5	H 169.1	H 432.6
1995 2000	0.8 0.7	163.0 165.3	8.6 5.7	14.8 19.9	1.2 2.0	24.7 27.6	8.7 5.9	0.6 0.8	(s)	90.6 97.7	287.4 295.6	R 204.8	n 492.3
2005	0.7	151.3	5.7	15.0	1.5	21.7	12.7	1.6	(s) 0.1	114.7	301.2	R 220.2 R 258.6	" 515.6 R 550 8
2005	0.1	129.8	3.6	13.2	1.0	17.7	11.3	1.0	0.1	110.2	269.7	R 246 4	R 516 1
2006 2007	0.4	145.8	3.6 2.8	16.6	0.7	17.7 20.1	12.5	1.8 2.2	0.1	110.2 118.2	269.7 298.2	R 246.4 R 279.3 R 279.3	R 577.5
2008	0.0	154.7	3.4	20.2	0.4	24.0	14.0	2.6	0.1	115.9	310.4	R 279.3	R 589.7
2009 2010	0.0	141.9	1.8	19.2	0.7	21.7	12.1	3.3	0.1	111.1	289.2	R 266.0 R 280.5	H 555.2
2010	0.0	140.1	1.5	17.3	0.6	19.4	13.0	3.7	0.1	119.6	295.1	H 280.5	H 575.6
2011 2012	0.0 0.0	133.7 116.9	1.6 1.4	16.6 11.9	0.4 0.1	18.6 13.4	12.6 10.5	3.6 3.8	0.1 0.1	115.7 112.5	283.7 256.7	R 266.6 R 254.9 R 265.7	n 550.2 R 511.6
2012	0.0	146.6	1.2	14.1	0.1	15.4	13.7	3.8	R 0.1	114.0	293.1	R 265.7	R 558 Q
2013	0.0	159.4	1.2	14.3	0.1	15.7	13.9	3.8	0.1	115.0	307.3	H 266 0	R 555.2 R 575.6 R 550.2 R 511.6 R 558.9 R 573.4
2015	0.0	136.1	1.2	11.6	0.2	13.0	12.5	3.8	0.2	110.7	275.8	R 246.6 R 241.8 R 221.9	R 522.4
2016	0.0	129.5	1.2 0.9	11.1	0.2	12.3	12.1	3.8	0.2 R 0.2	112.7	270.1 R 261.9	R 241.8	R 511.9
2017	0.0	128.9	0.9	10.8	0.1	11.8	10.2	3.8	H 0.2	107.7	H 261.9	H 221.9	R 522.4 R 511.9 R 483.8 R 544.4 R 521.0
2018	0.0	150.8	1.2	13.5	0.1	14.8	13.2	3.8	R 0.3 R 0.3	118.0	R 300.2 R 296.0	R 244.1 R 224.9	n 544.4
2019	0.0 0.0	150.2	1.3	14.4	0.1	15.8	13.0 R 8.7	3.8	R 0.3	113.4	P 296.0 P 279.3	11 224.9 B 212.0	1 521.0 B 402 F
2020	0.0	140.7 138.3	1.1 1.2	12.7 12.2	0.1 0.1	13.9	H95	3.8 3.8	R 0.5	112.2 114.2	R 279.2	R 223.2	R 492.5 R 502.8
2020 2021 2022	0.0	150.8	1.2 1.2	12.7 12.2 12.0	0.1 0.1 0.1	13.9 13.5 13.4	9.9	3.8 3.8	0.5	112.2 114.2 116.2	294.1	R 213.2 R 223.5 219.9	514.1

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Indiana

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	869	20	2,968	510	328	168	1,394	5,368	NA			NA	2,900			
1965	466	42	2,832	601	243	171	1,520	5,368	NA			NA	4,243		==	==
1970 1975	309 630	78 71	2,791 3,007	950 1,004	179 70	251 120	844 1,645	5,015 5,845	NA NA			NA NA	6,520 9,071			
1980	175	70	1,985	505	31	223 352	2,431	5,175	NA			NA	10,423			
1985 1990	408 441	70 67	2,738 1,244	352 526	133 35	352 561	388	3,964 2,428	NA 0			NA 0	12,257 16,116			
1995	249	83	1,104	567	70	175	62 32	1,948	0		==	Ö	18,654			
2000 2005	245	90 76	1,344 1,274	760 579	48 47	87 239	2 112	2,240 2,251	0			0	21,070 23,959			
2005	236 52	71	1,341	455	40	214	0	2,049	0			0	23,830			
2007 2008	158 341	76	996 1,188	486 963	28 13	276 382	4	1,789 2,547	0			0	24,768			
2008	322	85 79	959	963 890	13 17	713	9	2,547 2,588	0			0	24,570 23,689			
2010	339	76	709	605	26	598	0	1,939	0			(s)	24,365			
2011 2012	302 197	76 67	554 666	778 549	9 3	646 617	0 0	1,987 1,835	0			3	24,111 24,022			
2013	133	83	662	748	3	580	0	1,994	0			4	24,252			
2014 2015	139 62	91 78	831 786	641 647	18 12	566 1,584	(s)	2,056 3,030	0			6 7	24,130 24,022			
2016	62 67	74	771	536	14	1,605	(s) 0	2,926	Ö			7	24,229			
2017 2018	57 63	75 86	705 772	563 837	8 6	1,429 1,453	0 8	2,705 3,076	0			17 66	23,657 24,305			
2019	61	86 88	865	1,004	10	1,467	1	3,347	ő			73	23,518			
2020 2021	35 48	81 R 88	490 R 698	870	6 10	1,476	1 3	2,842 3,194	0		 	90	21,996			
2021	48 57	96	718	995 1,037	9	1,488 1,715	3	3,194	4			108 165	22,921 23,494			
								Tri	lion Btu							
1960	20.9	20.7	17.3	2.0	1.9	0.9	8.8	30.8	NA	0.3 0.2	NA	NA	9.9	82.6	R 20.0 R 28.5 R 45.6 R 63.2	R 102.5 R 127.2
1965 1970	11.2 7.1	42.2 78.0	16.5 16.3	2.3 3.7	1.4 1.0	0.9 1.3	9.6 5.3	30.6 27.5	NA NA	0.2 0.2	NA NA	NA NA	14.5 22.2	98.7 135.2	H 28.5 R 45.6	H 127.2 P 180.7
1975	13.9	69.8	17.5	3.9	0.4	0.6	10.3	32.7	NA	0.2	NA	NA	31.0	147.6	R 63.2	H 210 8
1980 1985	3.8	69.3 70.2	11.6 15.9	1.9	0.2 0.8	1.2	15.3 2.4	30.1 22.3	NA NA	0.6 0.6	NA NA	NA NA	35.6 41.8	139.2	H 75 7	R 214.8 R 228.6
1990	9.1 9.9	68.4	7.2	1.4 2.0	0.2	1.8 2.9	0.4	12.8	0.0	8.9	0.0	0.0	55.0	143.7 154.7	R 85.0 R 123.2	R 277 9
1995	5.6	83.7	6.4	2.2	0.4	0.9	0.2	10.1	0.0	8.5	0.1	0.0	63.6	171.2	R 143.9 R 161.9	R 315.0 R 350.4
2000 2005	5.8 5.3	92.7 77.6	7.8 7.4	2.9 2.2	0.3 0.3	0.5 1.2	(s) 0.7	11.5 11.8	0.0 0.0	7.9 6.0	0.2 0.5	0.0 0.0	71.9 81.7	188.5 182.2	H 184.3	H 366.5
2006	1.2 3.5	72.3	7.8	1.7	0.2	1.1	0.0	10.9	0.0	5.9	0.5	0.0	81.3	171.3	H 181 9	H 252 2
2007 2008	3.5	77.3 86.0	5.8 6.9	1.9 3.7	0.2 0.1	1.4 1.9	(s)	9.2 12.6	0.0 0.0	2.8 6.8	0.5 0.6	0.0 0.0	84.5 83.8	177.3 197.2	R 199.6 R 201.9	R 376.9 R 399.1
2009	7.9 7.5	80.0	5.5	3.4	0.1	3.6	(s) 0.1	12.7	0.0	6.3	0.6	0.0	80.8	187.4	n 193.6	R 381 0
2010 2011	7.9	76.8 76.9	4.1	2.3 3.0	0.1	3.0 3.3	0.0 0.0	9.6 9.5	0.0 0.0	6.3 5.6	0.7 0.9	(s)	83.1 82.3	184.0 181.8	R 194.9 R 189.5	R 378.9 R 371.3
2011	6.9 4.4	76.9 67.5	3.2 3.8	2.1	0.1 (s)	3.3 3.1	0.0	9.5 9.1	0.0	5.6 5.4	0.9	(s) (s)	82.3 82.0	161.8	n 185.8	R 354.7
2013	3.0	83.8	3.8	2.9	(s) (s)	2.9	0.0	9.6	0.0	5.0	0.8	(s)	82.7	184.7	n 192 9	n 377.6
2014 2015	3.1 1.4	92.5 79.4	4.8 4.5	2.5 2.5	0.1 0.1	2.9 8.0	(s) (s)	10.2 15.1	0.0 0.0	4.7 5.4	0.8 0.8	R (s) R (s)	82.3 82.0	193.4 R 183.7	R 190.5 R 182.6	R 383.8 R 366.3
2016	1.5	76.8	4.4	2.1	0.1	8.1	0.0	14.7	0.0	5.8	0.8	R (s) R 0.1	82.7	182 0	H 177 /	H 359 4
2017 2018	1.3 1.4	78.4 90.1	4.1 4.4	2.2 3.2	(s) (s)	7.2 7.3	0.0	13.5 15.1	0.0 0.0	5.3 5.6	0.8 0.8	R 0.1 R 0.2	80.7 82.9	R 179.7 R 195.8	R 166.4 R 171.6	R 346.1 R 367.4
2019	1.4	92.8	5.0	3.9	0.1	7.4	(s) (s)	16.3	0.0	5.0	0.8	Rna	80.2	H 106 5	R 150 1	R 355 6
2020	0.8	85.6	2.8	3.3	(s) 0.1	7.5	(s)	13.7	0.0	5.3	0.8	R 0.3 R 0.4	75.1	R 181.2	R 142.7 R 153.1	R 323.9
2021 2022	1.1 1.3	R 93.2 100.7	4.0 4.1	3.8 4.0	0.1 0.1	7.5 8.7	(s) (s)	15.4 16.9	0.0 (s)	5.5 5.2	0.8 0.8	0.4	78.2 80.2	R 194.2 205.2	<sup>n</sup> 153.1 151.7	R 347.3 356.9
					<b></b>	5.7	(0)		(0)	- U.E	0.0	0.0		200.2		

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Indiana

					Petro	leum			Hydro-	Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total f,k
1960	16,702	102	9,976	1,716	2,813	11,229	13,522	39,256	(s)				NA	8,226			
1965 1970	18,093 19,394	180 268	9,766 10,180	1,904 1,455	2,686 2,238	10,866 8,391	16,550 19,795	41,774 42,060	`Ó				NA NA				
1975	18,006	223	9,324	4,369	1,263	11,688	19,795	46,015	0				NA NA				
1980	16,599	245	5,053	3,930	752	11,984	17,112	38,831	Ö				NA	30,730			
1985	14,457	211	4,675	2,046	901	3,348	14,111	25,082	0				NA				
1990 1995	13,496 10,255	228 275	5,293 4,766	5,300 2,250	625 849	3,570 1,567	19,990 18,540	34,778 27.972	0				0	35,743 41,777	==		
2000	12,567	299	5,465	2,433	591	464	18,067	27,020	0				0	48,040			
2005	12,567	264	6,965	2,240	1,394	554	22,912	34,065	0				0	48,944			
2006	12,298	264	5,878	2,394	1,465	923	22,911	33,571	0				0	49,530			
2007 2008	11,789 10,791	273 272	6,192 5,807	2,526 1,213	2,533 2,364	314 366	21,183 19,432	32,749 29,182	0	==			0	49,988 48,411			
2009	8,998	245	4,724	2,041	2,289	129	19,440	28,624	ŏ				ŏ	43,055			
2010	10,565	290	3,998	1,683	1,307	77	16,237	23,303	0				(s)	46,552			
2011	8,996	327	5,001	1,624	1,304	39	14,426	22,394	0				(s)	47,774			
2012 2013	7,678 7,520	345 357	5,251 4.613	1,749 2,113	1,364 1,361	80 46	12,486 14,448	20,930 22,581	0				(S)	48,168 47,808			
2014	6,622	376	5.335	1,921	917	47	13,977	22,197	ő				(s)	49.088			
2015	6,069	373	5,430	1,393	1,000	67	15.818	23,708	0				(s)	49,088 48,030			
2016	6,062	371	5,395	1,241	1,104	84	R 13,924	R 21,749	0				1	46,429			
2017 2018	5,706 5,585	379 419	5,941 5,854	1,216 1,129	1,076 1,087	127	R 13,972 R 15,186	R 22,331 R 23,349	0			==	1	43,737 45,293			
2019	5,658	427	6.557	1,129	1,054	94 59	H 15 819	H 24 860	0				3	45,293			
2020	5,119	377	5,597	1,604	1,065	14	R 15.045	R 23 326	Ö				6	42,263			
2021	5,482	390	5,779	1,322	1,064	95	H 15,799	<sup>rt</sup> 24,058	0				8	43,329			
2022	4,962	389	5,841	1,581	1,092	97	14,674	23,285	0				7	42,480			
									Trillion Bt	-							
1960	431.8	106.1	58.1	6.5	14.8	70.6	83.1	233.1	(s)	7.8	NA	NA	NA	28.1	806.8	R 56.6	R 863.4
1965 1970	466.3 490.9	179.8 270.1	56.9 59.3	7.2 5.3	14.1 11.8	68.3 52.8	101.4 122.2	248.0 251.3	0.0	10.3 11.7	NA NA	NA NA	NA NA		946.4 1,085.3	R 82.9 R 125.5	R 1,029.4 R 1,210.8
1975	461.6	221.1	54.3	15.4	6.6	73.5	119.8	269.6	0.0	15.3	NA	NA	NA NA	91.0	1,058.6	H 185.8	R 1,244.4
1980	423.9	242.0	29.4	13.9	3.9	75.3	105.5	228.1	0.0	25.9	NA	NA	NA	104.9	1,024.0	н 223.0	H 1.247.0
1985	365.1	212.8	27.2	7.0	4.7	21.1	88.8	148.8	0.0	30.4 21.9	4.0	NA 0.0	NA		868.3	R 220.4 R 273.3	R 1,088.7 R 1,194.4
1990 1995	342.8 258.5	232.3 278.7	30.8 27.7	18.3 7.8	3.3 4.4	22.4 9.9	125.3 115.7	200.1 165.5	0.0	19.4	3.6 4.2	0.0	0.0 0.0		921.1 867.1	H 222 2	T 1 120 3
2000	329.4	306.1	31.8	8.3	3.1	2.9	112.3	158.4	0.0	13.1	3.8	0.0	0.0	163.9	970.0	R 369 2	R 1 339 2
2005	317.0	268.9	40.5	7.7	7.2	3.5	140.4	199.3	0.0	19.7	5.5	0.0	0.0		974.8	H 376 4	H 1 351 2
2006 2007	308.8 297.0	268.4 278.8	34.1 35.8	8.2 8.6	7.6 13.0	5.8 2.0	139.3 128.7	195.0 188.1	0.0	8.8 9.8	5.5 15.0	0.0 0.0	0.0 0.0		952.9 957.3	R 378.0 R 402.9	R 1,330.9 R 1,360.2
2007	273.6	275.9	33.6	4.1	12.1	2.3	117.4	169.4	0.0	9.6	32.4	0.0	0.0		924.6	n 397 9	R 1 322 5
2009	225.0	248.9	27.3	6.8	11.7	0.8	117.3	163.8	0.0	10.1	38.7	0.0	0.0	146.9	831.9	H 351.9	H 1.183.7
2010	267.2	293.2	23.1	6.5	6.6	0.5	98.7	135.3	0.0	11.4	51.6	0.0	(s)	158.8	915.9	H 372.4	n 1.288.3
2011 2012	234.4 215.7	331.0 349.4	28.9 30.3	6.2 6.7	6.6 6.9	0.2 0.5	88.4 76.8	130.3 121.2	0.0 0.0	11.7 11.0	54.2 46.3	0.0 0.0	(s)	163.0 164.3	923.0 906.2	R 375.5 R 372.5	R 1,298.5 R 1,278.8
2012	211.2	362.3	26.6	8.1	6.9	0.3	76.8 88.4	130.3	0.0	11.8	49.1	0.0	(S)	163.1	926.3	R 380 3	R 1,306.6
2014	184.7	382.8	30.7	7.4	4.6	0.3	85.5	128.6	0.0	12.4	53.7	0.0	(s)	167.5	928.1	R 387 5	R 1 315 6
2015	169.4	381.7	31.3	5.4	5.1	0.4	96.6	138.7	0.0	12.6	56.5	0.0	(s)	163.9	921.1	H 365.0	H 1.286.2
2016 2017	169.0	384.6 394.8	31.1 34.2	4.8 4.7	5.6 5.4	0.5 0.8	87.7 R 88.3	129.6 R 133.4	0.0	12.5 13.8	60.4 61.3	0.0	(s)	158.4 149.2	913.1 P 909.8	R 340.0 R 307.6	R 1 253 1
2017	159.1 155.9	394.8 438.7	34.2 33.7	4.7	5.4 5.5	0.8	R 95.2	R 133.4	0.0	13.8	63.1	0.0	(S)	149.2 154.5	R 963.8	R 319.8	R 1,283.6
2019	157.9	448.7	37.8	5.3	5.3	0.4	Rggg	H 147.6	0.0	13.7	55.8	0.0	(s)	154.6	H 976 8	H 306.6	H 1,283.4
2020	144.3	396.7	32.2	6.2	5.4 5.4	0.1	R 94.3	R 138.2	0.0	14.7	51.2	0.0	R (s) R (s)	144.2	R 887.8	R 274.1	R 1,161.9
2021 2022	155.0 137.9	411.8 408.7	33.3 33.7	5.1 6.1	5.4 5.5	0.6 0.6	R 99.4 93.0	R 143.7 138.8	0.0		60.7 63.6	0.0		147.8 144.9	R 932.3 905.7	R 289.3 274.3	R 1,221.7
2022	137.9	408.7	33.7	0.1	5.5	0.6	93.0	138.8	0.0	13.1	03.6	0.0	(s)	144.9	905.7	2/4.3	1,180.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Indiana

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
1960	287	5	453	4,097	47	1,316	692	40,615	350	47,570	1			
1965 1970	287 59 31	. 8	1,110	4,097 5,124 8,123	47 52 97	1,316 1,848	692 615 610	40,615 45,194	583 330	47,570 54,526 68,501	0			
1970 1975	31 3	11 10	367 217	8,123 11,200	97 125	2,558 2,619	610 763	56,417 63,256	330 331	68,501 78,510	0			
1980	ő	9	260	17.629	88	2,151	763 692	59,217	200	80,236	0	==	==	
1980 1985	0	5	393	20,564	148	15,445	630	56,684	31	93,895	0			
1990	0	8	302 144	24,000	153 104	17,889	709 676	60,744	195	103,991	12			
1995 2000	0	8 6	113	25,658 31,803	60	17,344 14,006	722	69,076 73,199	235 302	113,238 120,205	15 16			
2005	ŏ	7	162	34.281	171	6.950	609	75,375	192	117 740	17			
2006	Q	6	116	35,709 35,204	145 139	7,865	593 613	75,424	177	120,030 117,609	18 19			
2007	0	7	115	35,204	139	7,450	613	73,801	287	117,609	19 20			
2008 2009	0	7	92 92	32,100 28,566	247 188	6,263 7,452	569 512	71,411 71,119	370 100	111,053 108,029	20 20			
2010	Ö	9	102	31,608	33	3,795	512 664	73,006	127	109,335	20			
2011	0	10	96	32 720	36	3,890	634	69,805	212	107.393	21			
2012	0	7	89	31,833 35,570	30 46	3,859 3,886	582 628 654	69,329	146	105,867	20			
2013 2014	0	7	74 67	35,570 37,043	103	3,886 4,246	628 654	70,410 70,759	101 96	110,715 112,967	21 21			
2015	ŏ	7	67	35.886	94	4.525	705	72,233	101	113 612	21	=.=.		
2016	0	9	64	35,886 34,238	126	4,525 4,794	705 R 655 R 572	72,936	192	R 113 005	21			
2017	0	9	69	30,259	65	4,358	H 572	72,913	451	R 108,688	20			
2018 2019	0	8 11	65 72	30,384 30,745	59 46	4,519 4,663	R 533 R 510	71,245 69,764	131 211	R 106,936 R 106,010	21 21			
2020	0	10	61	20 517	38	3,302	H 464	63,875	195	R 97,452	18			
2021	Ŏ	12	70	H 31.624	33	4,393	H 507	69,945	264	H 107,369	18			
2022	0	11	73	31,367	83	3,929	529	68,465	271	105,259	13			
							Tri	llion Btu						
1960	6.9	5.2	2.3	23.9	0.2	7.1	4.2	213.3	2.2	253.2	(s)	265.3	(s) 0.0	265.3
1965	1.4	8.0	5.6	29.8 47.3	0.2	10.2	3.7 3.7	237.4	3.7 2.1	290.6 365.9	0.0	300.0	0.0	300.0
1970 1975	0.7 0.1	11.2 9.5	1.9 1.1	47.3 65.2	0.4 0.5	14.2 14.6	4.6	296.4 332.3	2.1	365.9 420.4	0.0 0.0	377.8 430.0	0.0 0.0	377.8 430.0
1980	0.0	8.8	1.3	102.7	0.3	12.0	4.2	311.1	1.3	432.9	0.0	441.7	0.0	441.7
1985	0.0	4.9	2.0	119.8	0.6	87.4	4.2 3.8	297.8	1.3 0.2	511.5	0.0	520.8	0.0	520.8
1990	0.0	8.6	1.5	139.8	0.6	101.3	4.3 4.1	319.1	1.2	567.8	(s) 0.1	581.6	0.1	581.7
1995 2000	0.0 0.0	7.8 6.1	0.7 0.6	149.3 185.1	0.4 0.2	98.3 79.4	4.1 4.4	359.5 380.7	1.5 1.9	613.8 652.3	0.1 0.1	621.7 658.4	0.1 0.1	621.8 658.5
2005	0.0	6.9	0.8	185.1 199.4	0.7	39.4	3.7	391.3	1.2	652.3 636.6	0.1	643.9	0.1	644.0
2006	0.0	6.6	0.6	207.2	0.6	44.6	3.6	391.1	1.1	648.7	0.1	656.5	0.1	656.7
2007	0.0	7.3 7.3	0.6	203.6 185.5	0.5	42.2 35.5	3.7 3.5	379.5	1.8 2.3	632.0 592.9	0.1	641.0	0.2 0.2	641.1
2008 2009	0.0 0.0	7.3 6.8	0.5 0.5	165.5 165.0	0.9 0.7	35.5 42.3	3.5	364.6 362.0	2.3 0.6	592.9 574.2	0.1 0.1	601.6 581.0	0.2 0.2	601.7 581.2
2010	0.0	8.8	0.5	182.5	0.7	21.5	4.0	369.9	0.8	579.4	0.1	588.3	0.2	588.5
2011	0.0	10.4	0.5	188.8	0.1	22.1	3.8	353.4	1.3	570.1	0.1	580.5	0.2	580.7
2012	0.0	7.3	0.4	183.6	0.1	21.9	3.5	350.9	0.9	561.4	0.1	568.8	0.2	R 568.9
2013 2014	0.0	7.3 7.6 7.5 7.3	0.4 0.3	205.0 213.5	0.2 0.4	22.0 24.1	3.8	356.3 358.0	0.6 0.6	588.3 600.8	0.1 0.1	595.9 608.4	0.2 0.2 0.2 0.2 0.2 0.2 0.2	596.1 R 608.5 610.9
2015	0.0 0.0	7.3	0.3	206.8	0.4	25.7	4.0 4.3	358.0 365.3	0.6	603.3	0.1	610.7	0.2	610.9
2016	0.0	9.4	0.3	197.1	0.5	27.2	4.0 3.5 3.2	368.7	1.2 2.8	599.0 574.2	0.1	608.5	0.2	608.6
2017	0.0	9.5 8.3	0.4	174.2	0.2	24.7	3.5	368.4	2.8	574.2	0.1	583.8	0.1 R 0.1	584.0
2018 2019	0.0 0.0	8.3 11.8	0.3 0.4	175.0 177.1	0.2 0.2	25.6 26.4	3.2	360.1 352.4	0.8	565.3 560.9	0.1 0.1	573.7 P 572.8	0.1	573.8 572.9
2020	0.0	11.8 R 10.1	0.4	169 9	0.2	18.7	3.1 2.8 R 3.1 3.2	322.7	1.3 1.2	515.8	0.1	H 526.0	0.1	572.9 R 526.1
2021	0.0	R 12.6 11.7	0.4 0.4	R 182.3 180.8	0.1 0.3	24.9 22.3	R 3.1	353.2 345.7	1.7 1.7	R 568.5 557.3	0.1	R 581.1 569.0	0.1 0.1	R 581.3 569.1
2022	0.0										(s)			

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Indiana

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	13,483	9	130	0	103	232	0	100		0	NA	NA	0	
1965 1970	18,113	13 30	130 80 257	0	63	232 142	0	94		Ō	NA	NA	Ō	
1970 1975	22,648 27,301	30 11	257 477	255 0	204 1,344	716	0	495 444		0	NA NA	NA NA	0	
1980	33.664	2	730	0	1,344	1,821 730	0	474		ő	NA	NA	0	
985	38,310	1	730 414	0	0	414	0	426		0	0	0	0	
990	47,654	7	423 342 530 323 267 284	956 82 1,174	0	1,379	0	441 467		0	0	0	0	
995 2000	52,089 59,431	8 15 35 27 38	342 530	82 1 17/	0	424 1 704	0	467 588		0	0	0	0	
005	60.011	35	323	190	ő	1,704 513 267 284	ő	438		ő	ŏ	ő	11	
006 007	60,582 60,756	27	267	0	0	267	0	490		0	0	0	30 -23	
007	60,756	38 34	284 308	0	0	284 308	0	450 437		0	0	0 238	-23 -83	
008	61,171 54,449	34 37	308 250		0	308 267	0	437 503		0	0	1 403	-83 -31	
010	54,449 56,348	61	250 256	18 0	0	267 256	0	454		0	0	1,403 2,932	1	
2011	52.704	85 115 81	289 208	1,432 1,022	0	1,720 1,231	0	409		0	Ó	3,284 3,209	-4	
012	46,696	115	208	1,022	0	1,231	0	434		0	(s) 31	3,209	17	
013 014	46,671 48,582	81 82	246 309	1,715 1,852	0	1,961 2,161	0	387 371		0	102	3,480 3,495	61 44	
015	39,106	128	264	1,933	ő	2,196	Ö	381		ő	156	4,514	118	
016	36,085	175	191	794	0	985	0	426		0	226	4,899	14	-
017	35,552	133	199	0	0	199	0	306		0	278	5,089	13	_
018 019	39,144 30,999	196 222	215 234	0	0	215 234	0	223 256		0	291 321	5,437 6,216	73 0	
2020	24.034	230	228	0	0	228	ő	271		ő	357	6,288	0	
2021	24,034 27,728	230 205 232	228 279	0	0	279	0	387		0	571	7,857	0	
2022	26,833	232	233	0	0	233	0	367		0	1,081	9,985	0	
							Trillion Btu							
1960 1965	305.2 406.9	9.1	0.8 0.5	0.0	0.6 0.4	1.4 0.9	0.0	R 0.3	0.0	0.0	NA	NA NA	0.0 0.0	R 316.1 R 421.4
970	498.9	13.3 29.7	0.5 1.5	0.0 1.5	1.3	4.3	0.0 0.0	R 0.3 R 1.7	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	R 534 (
975	579.6 728.2	11.0	1.5 2.8 4.3 2.4	0.0	8.5	11.2	0.0 0.0	R 1.7 R 1.5	0.0	0.0	NA	NA	0.0	R 534. R 603. R 736. R 821.
975 980 985	728.2	1.9	4.3	0.0	0.0	11.2 4.3 2.4	0.0	R 1.6 R 1.5	0.0	0.0	NA	NA	0.0 0.0 0.0	R 736.
985	816.5	1.1	2.4	0.0	0.0 0.0	2.4	0.0	n 1.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 4 000
990 995	1,006.7 1,079.6	6.6 8.5	2.5 2.0	5.8 0.5	0.0	8.2 2.5	0.0 0.0	R 1.5 R 1.6	0.0	0.0	0.0	0.0	0.0	R 1 092
000	1.259.2	14.8	3.1	7.1	0.0	10.2	0.0	R 2.0	1.1	0.0	0.0	0.0	0.0	R 1,287
005 006	1,271.7 1,277.0	14.8 36.0 27.6	1.9 1.6	1.1	0.0 0.0	3.0 1.6	0.0 0.0	R 2.0 R 1.5 R 1.7	0.2 2.2	0.0	0.0	0.0 0.0	(s) 0.1	R 1,312
006 007	1,2//.0 1,271.2	27.6 38.4	1.6 1.6	0.0 0.0	0.0	1.6 1.6	0.0	P 1.7 R 1.5	2.2	0.0 0.0	0.0 0.0	0.0	0.1 -0.1	n 1,309.
007	1,271.2	34.8	1.8	0.0	0.0	1.8	0.0	R 1.5	2.3 3.1 3.0	0.0	0.0	R 0.8	-0.3	R 1,314
008 009	1,276.6 1,132.9	37.0	1.8 1.4	0.1	0.0	1.8 1.5 1.5	0.0	R 1.5 R 1.7	3.0	0.0	0.0	R 0.8 _R 4.8	-0.1	R 1,180
010	1.174.4	61.8	1.5	0.0	0.0	1.5	0.0	R15	3.2	0.0	0.0		(s)	R 1,252
011 012	1,092.1 973.3	86.2 116.6	1.7 1.2	8.2 5.8	0.0 0.0	9.9 7.0	0.0 0.0	R 1.4 R 1.5 R 1.3	3.6 3.5	0.0 0.0	0.0	n 11.2 B 10.0	(s) 0.1	n 1,203
012	973.3 984.4	82.6	1.2	5.8 9.8	0.0	7.0 11.2	0.0	R 1.3	3.5	0.0	(s) R 0.1	R 11.9	0.1	R 1,095
014	1,033.6	84.8	1.8 1.5	10.6	0.0	12.4 12.6	0.0	R 1.3 R 1.3	3.7	0.0	R 0.3 R 0.5	R 11.2 R 10.9 R 11.9 R 11.9 R 15.4	0.2	R 1,147
015	836.7	133.6	1.5	11.1	0.0	12.6	0.0	R 1.3	4.1	0.0	R 0.5	H 15.4	0.4	R 1,023 R 1,092 R 1,287 R 1,312 R 1,309 R 1,314 R 1,318 R 1,180 R 1,252 R 1,203 R 1,112 R 1,095 R 1,147 R 1,004 R 988
016 017	777.8	182.6	1.1	4.5	0.0 0.0	5.6	0.0 0.0	R 1.5 R 1.0	4.0 4.4	0.0	R 0.8	1116/	(s)	n 988
017 018	768.9 828.3	139.9 206.2	1.1 1.2	0.0 0.0	0.0	1.1 1.2	0.0	R 0.8	4.4 4.4	0.0 0.0	R 0.9 R 1.0	R 17.4 R 18.6	(s) 0.2	R 933 R 1,059
019	662.2 524.2	233.9 243.4	1.3	0.0	0.0	1.3	0.0	Rna	4.5	0.0	R 1.1 R 1.2	R 21.2	0.0	H 924
2020	524.2	243.4	1.3 1.3	0.0	0.0	1.3 1.3	0.0	R 0.9	4.4	0.0	R 1.2	R 21.2 R 21.5 R 26.8	0.0	R 796
2021 2022	597.5 580.0	216.8 244.7	1.6 1.3	0.0 0.0	0.0 0.0	1.6 1.3	0.0 0.0	R 0.9 R 1.3 1.3	4.2 3.5	0.0 0.0	R 1.9 3.7	H 26.8 34.1	0.0 0.0	R 849. 867.
.022	0.000	244.7	1.3	0.0	0.0	1.3	0.0	1.3	3.3	0.0	3.7	34.1	0.0	007.

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, lowa

						Petroleum								
										_	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels	1			м	illion kilowatthoui	rs	Thousan	d barrels
1000	5.050	107	11 100	5.017	105	00.400	1.071	6.000	50.107	0	001		N/A	NIA.
1960 1965 1970	5,258 5,722 6,166	187 248	11,163 11,068 13,677	5,017 7,448	195 232 725	29,463 30,792 35,701	1,071 531 401	6,288 5,690	53,197 55,760 66,528	Ö	881 928 935	0 0	NA NA	NA NA
1970 1971	6,166	349 345	13,677	11,038	725	35,701 37,325	401	4,986 4,910	66,528	0	935 913	0	NA NA	NA NA
1972	5,896 6,945	345	14,257 14,941	11,139 12,506	655 730	38,404	414 509	4.948	68,698 72,038	0	993	0	NA	NA
1973 1974	7,026 6,173	365 368	15,531 14,825	12,692 13,369	710 749	42,104 38,847	572 697	4,645 4,535	76,253 73,022	0	906 891	0	NA	NA NA
1975	6.407	368 346	14.553	13.645	835	39.042	608	3.966	73,022 72,649	1,330 2,291	879	0	NA NA	NA
1976	8,311	311	15,088	18,586	964	40,738	931 1,096	4,679	72,649 80,987	2,479	645	Ō	NA	NA NA
1977 1978	9,175 10,110	280 238	15,977 16,915	17,854 15,698	1,004 1,127	41,237 40,927	1,096 921	4,853 5,160	82,020 80,749	2,888 1,209	780 930	0	NA NA	NA NA
1979	11 352	292	20.711	14 686	1.039	40,927 38,501	1.216	5.723	80,749 81,876	2 889	898	Ŏ	NA	NA NA
1980 1981	12,340 13,483	270 253	15,930 14,513	11,167 9,891	813 717	35,394 34,274	415 98	3,805 3,750	67,523 63,242	2,563 2,204	946 982	0	NA 528	NA NA
1982 1983	13,033	237 221	16,235 14,099	11,953 12,026	635 591	33,030 32,386	334 207	3,598 2,973	65,785 62,283	2,269 2,309	918 920	ő	1,185	NA
1983 1984	13,540 13,624	221 235	14,099 15,716	12,026	591 615	32,386 32,223	207 140	2,973	62,283	2,309	920	0	1,186	NA NA
1985	14.342	226	15.823	7,336 8,507	592	31,465	182	3,353 3,409	59,383 59,979	2,700 1,927	918 989	Ö	1,025 820	NA
1986 1987	13,862 15,191	207	16,214 16,531	8.774	595 779	31,355 31,687	508 117	3,269 3,086	60.714	2,993 2,523	953 971	0	836 967	NA
1988	16.114	203 239	16.333	6,098 6,612	713	32.509	258	3.477	58,298 59,901	3.163	699	0	979	NA NA
1989	17,126	226	15,600	7,174 6,355 7,255 8,978	750	32,574	182	2,903	59 183	3,139	672	0	1.116	NA NA
1990 1991	18,080 18,905	219 234	15,784 14,513	6,355 7,255	891 892	31,684 32,471 31,713	124 96	2,741 2,767	57,579 57,995 60,337	3,012 4 147	875 901	0	885 1,102	NA
1992	18,143	234 232	16.066	8,978	892 803	31,713	106	2.671	60,337	4,147 3,405	1,000	Õ	1.366	NA
1993 1994	19,328 19,460	248 248	16,699 17,293	15,651 15,663	720 897	32,703 33,887	162 179	2,676 3,224	68,612 71,143	3,235 4,107	901 1,000 747 1,071	0 (s)	1,611 1,849	NA NA
1995 1996	20.728	261 272	17,748 19,793	16,989	1,046 819	34,418 35,909	92	2,857 3,315	73,150 71,274	3,730 3,924	1,003	(s)	1,811 1,158	NA
1996 1997	21,301 21,798	272	19,793 19,652	16,989 11,344 10,296	819 793	35,909	92 94 71	3,315 3,936	71,274 70,325	3,924 4,149	935	(s) (s)	1,158	NA NA
1997	23,275	254 232	20,058	14.882	1.186	35,577 36,973	88	3,631	76.817	3,768	1,003 935 805 913	(S)	1,410 1,744 1,888 2,217	NA NA
1999	23.590	231	19.588	18,746 19,621	885 771	36,993 36,753	100	4.550	80,861 80,464	3.640	946	(s) 326	1,888	NA
2000 2001	24,480 24,398	233 224	19,261 20,101	19,621 16,127	777	36,753 36,768	143	3,915 3,072	76 889	4,453 3,853	904 845	494 488	2 330	NA 4
2002	24,676	226	19,706	18,317	782 793	38,004	44 62 150	3,593	80,464 74,843	4,574	946	919 982	2,391 2,555	6
2003 2004	24,868 24,975	230 227	18,930 20,407	13,337	793 910	38,249	150 282	3,385 4,115	74,843	3,988	789 946	982 1,050	2,555	5
2005	24,276	241	20.560	18,974 20,881	990	39,445 39,215	194	4,299	84,132 86,138 87,842 84,336	4,929 4,538	960	1,647	2,701 842 765 1,320	10 34 98 133
2006	24,607	238 293	21,313 22,873	21 192	1,033 899	40,429 40,251	47 44	3,828	87,842	5,095	909 962	2,318	765	98
2007 2008	26,350 27 894	326	22,873 23,026	16,893 20,523	899 786	40,251 39,281	44 170	3,375 3,246	84,336 87 034	4,519 5,282	962 819	2,757 4,084	1,320 2,356	114
2009	27,894 25,554	315	23,026 22,227	20,523 21,389	786 525	39,281 39,588	66	2,781	87,034 86,575	5,282 4,679	819 971	7,421	2,356 2,295	121
2010 2011	28,393 26,466	311 307	23,781 24,092	19,838 19,308	990 1,018	40,808 41,028	24 32	2,359 2,240	87,800 87,718	4,451 5,215	948 925	9,170 10,709	3,882 4,073	98 333
2012	24,305	295	23,929	15,584	1,064	38.519	32 11	2.381	81,487	4 347	766	14.032	3,784	554
2013	24,305 23,160	326	23,929 24,058 25,199	15,584 20,678	1,064 974 953	39,115	6	3,157	81,487 87,989 89,967	5,321 4,152	766 749 879	15,568	3,784 3,718	690
2014 2015	23,008 19,863	329 318	25,199 25.689	20,899 18,900	953 1,051	39,744 39,469	6 0	3,164 2.876	89,967 87,985	5.243	960	16,307 17,873	4,090 4,540 4,683	794 893
2016	16.904	330	25,689 26,020	18,900 19,059	1,045	41,192	ĭ	2,876 R 2,949 R 3,082	87,985 R 90,267 R 86,892 R 89,291 R 91,970	4,703	917	20,072	4,683	893 1,091
2017 2018	17,011 18,734	391 443	25,897 26,247	19,139 21,797	1,139 1,143	37,618 37,266	17 11	H 2 227	n 86,892 R ga 201	5,214 4,895	1,034 925	21,373 21,334	4,325 4,239	1,369 1,382
2019	15,212	443 438	27.369	23.688	1.139	36,992	16	H 2 766	R 91,970	5.236	796	26.305	4.274	1.570
2020	10,397	403 390	27,187 R 25,966	21,893	808	32,656	0	R 3,391 R 3,791	R 85,935 R 87,638	2,905	1,025	34,182	3,768	1,589 1,490
2021 2022	15,154 13,003	390 438	25,966	20,468 21,438	1,004 1,122	36,394 38,391	15 15	3,791	90,989	0	980 1,010	37,098 45,761	4,223 4,490	1,490 1,597
	,		,	,	-, -==	,		-,	,0	•	.,	,	.,	.,

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of

data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products"

category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, lowa (trillion Btu)

			Г		Fossi	l fuels					-	Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	115.9	193.7	65.0	19.2	1.0	154.8	6.7	38.2	285.0	594.6	193.7	65.0	154.8
1965 1970	126.6 130.9	250.0	64.5	28.5 41.8	1.3 4.1	161.7 187.5	3.3 2.5	34.6	293.9 346.6	670.5	250.0 351.8	64.5 79.7	161.7
1970 1971	130.9 124.7	351.8 347.7	79.7 83.0	41.8 42.2	4.1 3.7	187.5 196.1	2.5 2.6	31.0 30.7	346.6 358.3	829.2 830.7	351.8 347.7	79.7 83.0	187.5 196.1
1972	144.9	347.6	87.0	47.2	4.1	201.7	3.2	30.8	374.1	866.6	347.6	87.0	201.7
1973	148.7	369.0	90.5	47.7	4.0	221.2	3.6	28.9	395.8	913.5	369.0	90.5	221.2
1974	128.2	371.6	86.4	49.9	4.2	204.1	4.4	28.1	377.0	876.8	371.6	86.4	204.1
1975 1976	131.6 169.5	348.6 313.9	84.8 87.9	50.7 68.2	4.7 5.4	205.1 214.0	3.8	24.7 29.0	373.7 410.4	853.9 893.8	348.6 313.9	84.8 87.9	205.1 214.0
1977	185.1	281.4	93.1	64.8	5.6	216.6	5.9 6.9	30.1	417.1	883.7	281.4	93.1	216.6
978 979	201.3	238.8 292.2	98.5	57.0	6.3	215.0 202.2	5.8	32.1 35.6	414 7	854.8 937.4	238.8 292.2	98.5	215.0
979	219.4	292.2	120.6	53.8	5.9	202.2	7.6	35.6	425.8	937.4	292.2	120.6	202.2
980 981	234.4 252.1	270.3 253.9	92.8 84.5	40.8 36.0	4.6 4.0	185.9 180.0	2.6 0.6	23.3 23.3	350.0 328.5	854.8 834.5	270.4 254.0	92.8 84.5	185.9 180.0
982	243.9	238.9	94.6	42.9	3.6	173.5	2.1	22.4	339.0	821.8	239.0	94.6	173.5
983	253.7	223.6	82.1	43.4	3.3	170.1	1.3	18.5	318.8	796.0	223.6	82.1	170.1
984 985	251.5	238.3 191.6	91.5 92.2	26.6	3.4 3.3	169.3 165.3	0.9	20.9 21.4	312.6	802.5 774.3	238.4	91.5 92.2	169.3
985 986	268.8 262.1	163.6	92.2 94.4	30.6 32.0	3.3	164.7	1.1 3.2	21.4	313.9 318.2	774.3 744.0	228.4 209.0	92.2 94.4	165.3 164.7
987	287.3	157.9	96.3	22.4	4.4	166.5	0.7	19.3	309.6	754.8	204.7	96.3	166.5
988	306.1	196.3	95.1	24.4	4.0	170.8	1.6	22.0	317.9	820.4	240.8	95.1	170.8
989 990	317.7 335.0	178.6 172.1	90.9 91.9	26.6 23.2	4.2 5.0	171.1 166.4	1.1 0.8	18.2 17.2	312.2 304.5	808.5 811.7	228.2 220.4	90.9 91.9	171.1 166.4
990 991	349.3	188.1	84.5	26.5	5.0	170.6	0.6	17.3	304.5	841.9	235.8	84.5	170.6
992	329.3	179.6	93.6	32.6 55.6	4.5	166.6	0.7	16.6	314.5	823.4	232.5	93.6 97.3	166.6
993	344.1	196.7	97.3	55.6	4.1	165.0	1.0	16.6	339.5	880.2	248.8	97.3	170.6
994 995	348.9 372.3	198.5 210.5	100.6 103.3	56.2 60.6	5.1 5.9	170.3 172.8	1.1 0.6	20.3 17.9	353.6 361.1	901.1 943.9	250.5 262.5	100.6 103.3	176.7 179.1
996	383.7	223.1	115.2	41.6	4.6	183.1	0.6	20.9	366.0	972.8	274.0	115.2	187.1
997	391.7	208.4	114.4	37.8	4.5	183.1 180.3	0.4	25.0	362.4	962.5	256.8	114.4	185.2
998	424.9	184.9	116.7	53.2	6.7	186.3 185.9	0.6	22.8	386.3	996.1	234.6	116.7	192.4
999 000	432.0 445.9	201.5 203.0	114.0 112.1	67.0 69.7	5.0 4.4	183.5	0.6 0.9	28.7 24.7	401.2 395.3	1,034.6 1,044.2	235.1 233.7	114.0 112.1	192.4 191.2
001	443.9	193.4	117.0	57.0	4.4	183.1 189.3	0.3	19.5	381.2	1,018.6 1,032.2	225.2	117.0	191.2
002	441.5	194.0	114.7	65.0	4.4	189.3	0.4	22.8	396.6	1,032.2	227.1	114.7	197.6
003 004	444.6 443.2	197.6	110.2	48.1 67.1	4.5	189.9	0.9	21.6	375.2	1,017.4	230.9	110.2	198.8
005	443.2 429.8	198.0 210.7	118.7 119.6	73.7	5.2 5.6	195.6 200.7	1.8 1.2	26.4 27.6	414.8 428.5	1,056.0 1,069.0	227.5 242.8	118.7 119.6	205.0 203.6
006	435.2	207.2	123.7	74.5	5.9	207.0	0.3	24.4	435.7	1,078.0	241.3	123.7	209.6
007	465.2	264.2	132.3	59.5	5.1	202.4	0.3	21.3	420.9	1,150.3	296.2	132.3	207.0
008 009	485.2 444.6	297.4 284.0	133.1 127.4	72.2 74.4	4.5 3.0	192.4 193.6	1.1 0.4	20.6 17.7	423.8 416.4	1,206.4	329.0 317.4	133.1 128.4	200.6 201.5
010	493.8	278.8	136.6	66.7	5.6	193.3	0.4	14.8	417.2	1,145.0 1,189.8	312.9	137.3	206.8
011	463.1	277.6	136.6 137.2	64.7	5.8	193.3 193.6	0.2	14.1	415.5	1,156.3	312.9 309.7	139.0	207.7
012	422.6	266.3	136.1	52.8	6.0	181.9	0.1	15.2	392.0	1,080.9	299.3	138.0	195.0
013 014	402.4 401.2	306.4 311.4	135.2 141.8	69.9 70.7	5.5 5.4	185.0 186.9	(s) (s)	19.5 19.4	415.1 424.2	1,123.9 1,136.7	335.6 342.6	138.6 145.2	197.9 201.1
014	348.3	302.9	144.6	63.0	6.0	183.8	0.0	17.8	415.1	1.066.4	334.7	148.0	199.6
016	298.0	317.1	145.2	63.6	5.9	192.0	(s) 0.1	18.3	424.9	R 1 040 1	348.6	149.8	208.2
017	300.3	376.3	144.7	63.9	6.5	175.0	0.1	R 19.1 R 17.4	424.9 R 409.3 R 418.8	H 1 085 9	413.0	149.1	190.1
018 019	325.7 266.4	431.5 433.4	147.1 153.8	74.2 81.4	6.5 6.5	173.6 172.0	0.1 0.1	17.4 _ 16.9	" 418.8 R 430.7	R 1,176.0	470.2 466.9	151.2 157.6	188.3 186.9
020	183.0	396.3	152.3	74.5	4.6	151.9	0.0	R 21.0	R 430.7 R 404.3	1,130.4 R 983.6	431.1	156 5	165.0
021	264.4	383.4	<sup>R</sup> 147.9	69.1	5.7	169.1	0.1	22.9	<sup>R</sup> 410.2	R 1,058.0	417.8	R 149.7	183.8
2022	227.9	433.7	150.8	72.8	6.4	178.2	0.1	21.3	424.5	1,086.1	467.5	152.5	193.8

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, lowa (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 3.0 R 3.2	6.4	NA	NA	NA	NA	6.4	0.0	NA	NA	R 9.4	R -14.8 R 1.0	0.0	R 589.2
1965 1970	0.0 0.0	R 3 2	5.5 6.3	NA NA	NA NA	NA NA	NA NA	5.5 6.3	0.0 0.0	NA NA	NA NA	R 8.6 R 9.5	R -7.7 R 1.0	0.0 0.0	R 680.1 R 831.0
1971	0.0	R 3.1	6.3 6.6	NA	NA	NA	NA	6.3 6.6	0.0	NA	NA	R 9.5 R 9.7	R 1.0 R 6.2	0.0	R 831.0 R 841.4
1972 1973	0.0 0.0	R 3.4 R 3.1	6.9 7.3 7.7	NA NA	NA NA	NA NA	NA NA	6.9 7.3	0.0 0.0	NA NA	NA NA	R 10.3 R 10.4	R 176	0.0 0.0	R 883.1 R 941.4
1974	14.8	R 3.0	7.7	NA	NA	NA	NA	7.3 7.7	0.0	NA	NA	H 10 7	R 22.8 R 27.6	0.0	R 925 2
1975 1976	25.2 27.4	R 3.0 R 2.2	7.9 8.5	NA NA	NA NA	NA NA	NA NA	7.9 8.5	0.0 0.0	NA NA	NA NA	R 10.7 R 10.7	R 27.6	0.0 0.0	R 917.6 R 956.3
1977	31.1	R 2.2 R 2.7	9.0	NA	NA	NA	NA	9.0	0.0	NA	NA	H 11 6	R 24.5 R 35.5	0.0	H 961.8
1978 1979	13.2 31.4	R 3.2 R 3.1	9.6 9.7	NA NA	NA NA	NA NA	NA NA	9.6 9.7	0.0 0.0	NA NA	NA NA	R 12.8 R 12.7	R 57.8 R 34.2	0.0 0.0	R 938.6
1980	28.0	R 3 2	48.7	NA NA	NA	NA NA	NA	48.7	0.0	NA	NA	H 52 0	R 25.3	0.0	R 1,015.7 R 960.0
1981	24.3	R 3.3 R 3.1	49.6	1.8	NA	NA	2.5	53.9 57.3	0.0	NA	NA	R 57.3 R 60.4	R 25.3 R 29.5 R 33.7	0.0	R 945.6 R 941.1
1982 1983	25.1 25.2	R 3 1	50.2 54.7	4.1 4.1	NA NA	NA NA	3.0 3.6	57.3 62.4	0.0 0.0	NA NA	NA 0.0	R 65 6	R 35.2	0.0 0.0	R 922.0
1983 1984	29.3	R 3.1	54.7 57.8	3.6	NA	NA	4.7	66.0	0.0	0.0	0.0	n 69.1	R 35.2 R 9.9	0.0	R 922.0 R 910.8
1985 1986	20.5 31.7	R 3.4 R 3.3	58.1 78.6	2.8	NA NA	NA NA	4.6 8.5	65.6 90.0	0.0 0.0	0.0 0.0	0.0 0.0	R 69.0 R 93.3	R 7.9	3.6 0.0	R 875.3 R 878 4
1987	26.3	R 3.3 R 3.3	82.4	2.9 3.4	NA	NA	11.8	97.5	0.0	0.0	0.0	R 100.9	R 9.4 R 4.8	0.0	R 878.4 R 886.8
1988 1989	33.5 33.2	R 2.4	89.2 52.6	3.4 3.9	NA NA	NA NA	11.7 14.1	104.3 70.6	0.0 0.1	0.0	0.0 0.0	R 106.7 R 72.9	R 0.1 R 4.3	0.0 0.0	R 960.7 R 919.0
1969	33.2 31.9	R 2.3 R 3.0	52.6 47.8	3.9	NA NA	NA NA	14.1	70.6 64.9	0.1	(s) (s)	0.0	H 67 9	R 30.4 R 22.8	0.0	R 941.9 R 978.0
1991	43.5	R 3.1 R 3.4	47.3	3.8	NA	NA	15.5	66.6	0.1	(s)	0.0	H 60 8	R 22.8	0.0	R 978.0
1992 1993	35.7 34.0	H 3.4	45.7 43.5	4.7 5.6	NA NA	NA NA	19.4 24.0	69.8 73.1	0.1 0.1	(s)	0.0 0.0	R 73.3 R 75.7	R 36.4 R 43.4 R 40.5	0.0 0.0	R 968.8 R 1,033.4 R 1,062.5
1994	42.9	R 2.5 R 3.7	40.8	6.4	NA	NA	27.0	73.1 74.2	0.2	(s)		R 75.7 R 78.0	R 40.5	0.0	R 1,062.5
1995 1996	39.2 41.2	R 3.4	40.8 48.3	6.3 4.0	NA NA	NA NA	26.7 26.5	73.8 78.8	0.2 0.2	(s)	(s) (s) (s) (s)	R 77.5 R 82.2	R 40.4 R 46.0 R 48.7	0.0 0.0	R 1,101.0 R 1,142.3
1997	43.5	R 3.2 R 2.7	40.4	4.9	NA	NA	26.3	71.6	0.2	(s)	(s)	R 74.6	R 48.7	0.6	H 1.129.8
1998	39.5	R 3.1 R 3.2	37.3	6.0	NA	NA	26.1	69.4	0.3	(s)	(s)	R 72.8	H 32 Q	0.2	H 1 141 4
1999 2000	38.0 46.4	R 3.2	37.5 31.6	6.5 7.7	NA NA	NA NA	27.0 26.9	71.1 66.1	0.3 0.3	(S)	B 1.1 B 1.7	R 75.7 R 71.2	R 40.2 R 24.2 R 31.3 R 30.5	0.1 (s)	R 1,188.7 R 1,186.0
2001	40.2	R 3.1 R 2.9	27.7	8.1	(s)	NA	26.8	62.6	0.3	(s)	H17	H 67 5	R 31.3	(s)	H 1.157.6
2002 2003	47.8 41.6	R 3.2 R 2.7	30.8 30.5	8.3 8.9	(s) (s)	NA NA	26.7 35.8	65.9 75.2	0.4 0.5	(s) (s)	R 3.1 R 3.4	R 72.6 R 81.8	n 30.5 R 38.5	0.ó	R 1,183.0 R 1,179.3
2004	51.4	R 2.7 R 3.2	30.6	9.4	0.1	NA	50.7	90.7	0.6	(s)	R 3.4 R 3.6	R 98.1	R 38.5 R 27.4	(s) (s)	H 1.232.9
2005	47.4	R 3.3	31.0	2.9 2.7	0.2	NA NA	64.0 86.1	98.1 110.1	0.6	(s)	R 5.6 B 7.0	R 107.7 R 121.8	R 35.8	(s)	H 1 259 8
2006 2007	53.2 47.4	R 3.1 R 3.3	20.9 23.5	4.6	0.5 0.7	NA NA	110.5	139.3	0.7 0.8	(s) (s)	R 7.9 _R 9.4	R 152.8	R 28.0 R 3.9	(s) (s)	R 1,281.0 R 1,354.4
2008	55.2	R 2.8 R 3.3	23.9	8.2	0.6	NA	131.3	164.0	0.9	(s)	R 13.9	H 181.6	R -31.1 R -31.6	0.0	R 1,412.1 R 1,398.4
2009 2010	48.9 46.5	R 3.2	26.7 28.3	7.9 13.5	0.6 0.5	NA NA	171.1 192.9	206.4 235.1	1.0 1.2	(s)	R 31.3	R 236.1 R 270.9	R -65.4	0.0 0.0	H 1.441.8
2011	54.6	R 3.2	19.8	14.1	1.8	0.0	203.4	239.0	1.4	(s)	R 36.5	R 280.1	R -65.4 R -49.8	(s)	H 1.441.2
2012 2013	45.6 55.6	R 2.6 R 2.6	17.6 19.6	13.1 12.9	3.0 3.7	0.0 0.0	194.7 196.4	228.4 232.7	1.3 1.3	(s) 0.1	H 47.9 R 53.1	R 280.2 R 289.7	R -47.6 R -38.6	(s) 0.0	R 1,359.1 R 1,430.6
2014	43.4	H 3.0	23.0	14.2	4.3	0.0	200.4	241.8	1.3	R 0.1	R 55.6	H 301.9	R -37 1	0.0	H 1.444.9
2015	54.8	R 3.3 R 3.1	21.4	15.8	4.8	0.0	210.7	252.7	1.3	R 0.2 R 0.2	R 13.9 R 25.3 R 31.3 R 36.5 R 47.9 R 53.1 R 55.6 R 61.0 R 68.5 R 72.8	R 318.4 R 330.2	R -33.5 R -4.6	0.0	R 1,406.2 R 1,414.9
2016 2017	49.2 54.5	R 3.5	20.5 18.1	16.3 15.0	5.8 7.3	0.0 0.0	214.5 224.3	257.1 264.7	1.3 1.3	R <sub>04</sub>	R 72.9	R 342 8	R -29.1	0.0 0.0	R 1,414.9 R 1,454.1 R 1,524.8
2018	51.2	R 3 2	19.4	14.8	7.4	0.0	232.0	273.6	1.3	Ros	R 72.8	H 351 3	R -29.1 R -53.7	0.0	R 1,524.8
2019 2020	54.7 30.3	R 2.7 R 3.5	20.3 R 18.0	14.9 13.1	8.4 8.5	0.0 0.0	231.2 203.8	274.8 R 243.4	1.3 1.3	R 0.6 R 0.8	R 89.8 R 116.6	R 369.2 R 365.6	R -46.1 R -25.4	0.0 0.0	R 1,508.2 R 1,354.1
2021	0.0	R 3.3	R 18.4	14.7	8.0	0.0	214.9	H 256.0	1.3	R 1.6	H 126.6	H 388.8	H -60.1	0.0	R 1,386.8
2022	0.0	3.4	19.4	15.6	8.6	0.0	211.0	254.6	1.3	2.4	156.1	417.9	-80.7	0.0	1,423.2

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, lowa

						Petroleum					Bior	nass						
'	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			-	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	3,141	139	10,904	5,017	195	29,463	1,033	6,288	52,899	2					8,208			
1970	2,136	271	13,350	11,038	725	35,701	352	4,986	66,152	1					15,473			
1980 1990	1,595 2.599	263 215	15,762 15,660	11,167 6,355	813 891	35,394 31,684	352 124	3,805 2,741	67,292 57,456	0					24,858 29,437			
2000	3,163	228	19,038	19,621	771	36,753	143	3.915	80,241	0					39,088			
2005	3,204	220	20,205	20,881	990	39,215	194	4,299	85,784	0					42,757			
2006	3,370	219	21,043	21,192	1,033	40,429	47	3,628	87,372	0					43,337			
2007	3,332	267	22,431	16,893	899	40,251	44	3,119	83,637	0					45,270			
2008 2009	3,161 2.947	308 305	22,847 22,100	20,523 21,389	786 525	39,281 39,588	170 66	3,094 2,728	86,702 86,395	0					45,488 43,641			
2010	3,613	299	23,598	19,838	990	40,808	24	2,726	87.483	0					45,445			
2011	3,789	297	23,934	19,308	1,018	41,028	32	2,102	87,421	0					45,655			
2012	3,558	279	23,725	15,584	1,064	38,519	11	2,357	81,260	0					45,709			
2013	3,643	314	23,875	20,678	974	39,115	6	3,157	87,806	0					46,705			
2014	3,303	319	25,072	20,899	953	39,744	6	3,164	89,839	0					47,202			
2015 2016	3,023 2.615	302 309	25,595	18,900	1,051 1.045	39,469	0	2,876 R 2,949	87,891 R 90,102	0					47,147 48,431			
2016	2,533	362	25,856 25,776	19,059 19,139	1,045	41,192 37,618	17	R 3,082	R 86,771	0					48,922			
2018	2,504	396	26,117	21,797	1,143	37,266	11	R 2,827	R 89,161	0					51,211			
2019	2,425	391	27,232	23,688	1,139	36,992	16	R 2,766	R 91,833	0					51,043			
2020	2,198	360	27,055	21,893	808	32,656	0	R 3,391	R 85,803	0					50,640			
2021	2,132	348	R 25,720	20,468	1,004	36,394	15	R 3,791	R 87,391	0					52,893			
2022	2,453	383	26,228	21,438	1,122	38,391	15	3,563	90,756	0					54,204			
									Trillion	Btu								
1960	72.0	143.4	63.5	19.2	1.0	154.8	6.5	38.2	283.2	(s)	6.1	NA	NA	NA	28.0	532.7	R 56.5	R 589.2
1970	46.7	273.2	77.8	41.8	4.1	187.5	2.2	31.0	344.4	(s)	5.9			NA	52.8		R 108.1	R 831.0
1980	34.2	263.5	91.8	40.8	4.6	185.9	2.2	23.3	348.6	(s)	48.4			NA	84.8	779.5	R 180.4	R 960.0
1990 2000	59.0 67.7	216.2 229.0	91.2 110.8	23.2 69.7	5.0 4.4	166.4 191.2	0.8 0.9	17.2 24.7	303.8 401.7	0.0	47.6 30.7			(s) (s)	100.4 133.4	696.9 859.6	<sup>R</sup> 244.9 <sup>R</sup> 326.4	R 941.9 R 1,186.0
2005	65.6	229.0	117.6	73.7	5.6	203.6	1.2	27.6	429.3	0.0	30.7			(s)	145.9	928.0	R 331.8	R 1,259.8
2006	67.9	221.6	122.1	74.5	5.9	209.6	0.3	23.3	435.6	0.0	19.8		0.7	(s)	147.9	948.9	R 332.1	R 1,281.0
2007	68.4	270.0	129.7	59.5	5.1	207.0	0.3	19.9	421.5	0.0	22.0			(s)	154.5	1,019.3	R 335.1	R 1,354.4
2008	63.4	311.2	132.1	72.2	4.5	200.6	1.1	19.7	430.1	0.0	22.2			(s)	155.2		R 327.1	R 1,412.1
2009	58.7	307.3	127.7	74.4	3.0	201.5	0.4	17.4	424.4	0.0	25.3		1.0	(s)	148.9	1,104.4	R 294.4	R 1,398.8
2010 2011	72.1 76.0	300.3 299.7	136.3 138.1	66.7 64.7	5.6 5.8	206.8 207.7	0.1 0.2	14.0 13.3	429.6 429.8	0.0	26.8 18.3		1.2 1.4	(s)	155.1 155.8	1,145.1 R 1,153.3	R 296.9 R 287.9	R 1,442.0 R 1,441.2
2011	68.5	282.4	136.8	52.8	6.0	195.0	0.2	15.0	429.6	0.0	16.3		1.4	(s) (s)	156.0	1,153.3	R 264.2	R 1,358.0
2012	69.1	323.2	137.6	69.9	5.5	197.9	(s)	19.5	430.4	0.0	18.2		1.3	0.1	159.4	1,170.1	R 260.3	R 1,430.4
2014	63.5	331.6	144.5	70.7	5.4	201.1	(s)	19.4	441.1	0.0	21.3		1.3	R 0.1	161.1	R 1,190.1	R 254.0	R 1,444.1
2015	56.5	317.5	147.5	63.0	6.0	199.6	0.0	17.8	433.8	0.0	19.6		1.3	R 0.2	160.9	R 1,170.4	R 234.4	R 1,404.9
2016	48.4	326.5	148.9	63.6	5.9	208.2	(s)	18.3	444.9	0.0	18.6			R 0.2	165.2	R 1,190.2	R 223.5	R 1,413.7
2017	47.4	381.8	148.4 150.4	63.9	6.5 6.5	190.1 188.3	0.1	R 19.1 R 17.4	R 428.1 R 436.8	0.0	16.1 17.6			R 0.3 R 0.5	166.9	R 1,232.4 R 1,294.3	R 218.8 R 227.2	R 1,451.2 R 1,521.4
2018 2019	46.3 45.0	419.4 415.9	150.4 156.8	74.2 81.4	6.5	188.3 186.9	0.1 0.1	16.9	448.6	0.0	17.6			R 0.6	174.7 174.2	R 1,305.7	R 197.9	R 1,503.6
2019	40.3	383.6	155.7	74.5	4.6	165.0	0.0	R 21.0	R 420.8	0.0	R 16.2	203.8	1.3	R 0.8	174.2	R 1,208.8	R 141.0	R 1,349.8
2021	39.1	371.9	R 148.2	69.1	5.7	183.8	0.1	22.9	R 429.8	0.0	R 16.6			R 0.9	180.5	R 1,224.5	R 160.7	R 1,385.1
2022	44.4	408.6	151.2	72.8	6.4	193.8	0.1	21.3	445.6	0.0	17.8	211.0	1.3	1.1	184.9	1,285.3	136.2	1,421.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, lowa

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	537	58	2,610	3,507	2,301	8,417				3,720			
1965	279	77	2,347 2,232	5.020	1,327 325	8,694 9,784				5.044			
1970	100	96	2,232	7,227	325	9,784				6,480			
1975	42 19	94	1,802	7,199	138	9,139				8,338			
1980 1985	61	85 79	2,388 1,490	4,119 3,172	47 115	6,554 4,777				10,038 9,851			
1990	49	71	926	2,904	24	3.853				10,513			
1995	12	82	781	4,197	24 25	3,853 5,003				11,640			
2000	29 22 27	74	481	5,620	26 22 15	6 128				12,029			
2005 2006	22	67	226 241	4,595 4,256	22	4,843 4,512				13,571			
2006	32	62 68	241	4,256 4,340	10	4,512 4,579				13,344			
2008	0	68 75	229 286	5,718	6	6,010				14,060 14,073			
2009	Ö	70	182	5.575	14	5 772				13,723 14,555 14,327			
2010	0	68 67	191 253	4,598	15	4,804 4,909				14,555			
2011	0	67	253	4,646	11 2	4,909				14,327			
2012 2013	0	56 73	128 128	3,730 4,544	2	3,859 4,674				13,988 14,626			
2013	0	77	135	4 634	4	4 772				14.427			
2015	ŏ	63	135	3,914 4,009	3	4,052 4,122				13,786			
2016	0	61	108	4,009	6	4,122				14.094			
2017	0	60	169	3,796 5,895 6,551	5	3,970				13,722 14,840			
2018 2019	0	71 71	158 147	5,895 6,551	3 5	6,056 6,703				14,840			
2020	0	64	113	6,186	9	6,308				14.567			
2021	Ö	62	146	5,348	4	5,497				14,567 14,652			
2022	0	71	158	6,898	4	7,059				15,193			
							Trillion Btu						
1960	11.4	60.5	15.2	13.5	13.0	41.7	3.3	NA	NA	12.7	129.6	R 25.6	R 155.2
1965 1970	5.9 2.0	78.0	13.7	19.3 27.8	7.5 1.8	40.5	2.2 2.0	NA NA	NA	17.2	143.8	H 33.8	H 177.7
19/0	2.0	97.1	13.0		1.8 0.8	42.6	2.0 2.3	NA NA	NA NA	22.1	165.8	R 33.8 R 45.3 R 58.1	R 177.7 R 211.1 R 223.7
1975 1980	0.8 0.4	95.1 85.2	10.5 13.9	27.7 15.8	0.8	38.9 30.0	2.3 10.3	NA NA	NA NA	28.4 34.2	165.6 160.1	R 72 9	R 233.0
1980 1985	1.3	79.6	8.7	12.2	0.7	21.5	10.3 12.9	NA	NA NA	34.2 33.6	135.5	R 72.9 R 68.3	R 233.0 R 203.8
1990	1.2 0.3	71.9 82.6	5.4	11.2 16.1	0.1	16.7 20.8	7.0	0.1 0.1	(s) (s)	35.9 39.7	116.2	R 87.5 R 96.2 R 100.5 R 105.3 R 102.3 R 104.1	R 203.7 R 228.7 R 235.8
1995	0.3	82.6	4.5	16.1	0.1	20.8	6.1	0.1	(s)	39.7	132.5	H 96.2	H 228.7
2000	0.7 0.5	74.2 67.7	2.8 1.3	21.6 17.6	0.1 0.1	24.5 19.1	4.8	0.1	(s)	41.0	135.3 128.7	n 100.5	R 235.8
2005 2006	0.5	62.6	1.4	16.3	0.1	17.8	4.3 3.8 4.2	0.2 0.2	(s) (s)	46.3 45.5	121.3	R 105.3	R 234.1 R 223.6 R 236.1
2007	0.8	68.4	1.3	16.7	0.1	18.1	4.2	0.3	(s)	48.0	132.0	R 104.1	R 236.1
2008	0.0	76.2	1.7	22.0	(s) 0.1	23.6	4.7	0.3	(s)	48.0	145.3	R 101.2 R 92.6 R 95.1 R 90.3 R 80.9	R 246.5
2009	0.0	70.6	1.1	21.4	0.1	22.5	5.5	0.4	(s) (s)	46.8	138.2	H 92.6	H 230.7
2010	0.0	68.8	1.1	17.7	0.1	18.8	5.9	0.4	(s)	49.7	135.9	<sup>n</sup> 95.1	P 231.0
2011 2012	0.0 0.0	67.7 56.6	1.5 0.7	17.8 14.3	0.1 (s)	19.4 15.1	5.8 4.8	0.7 0.5	(s) (s) R (s)	48.9 47.7	135.1 118.3	R 80 0	R 100 2
2012	0.0	74.6	0.7	17.5	(s)	18.2	6.3	0.5	R (S)	49.9	142.9	R 81 5	R 224 4
2014	0.0	79.6	0.8	17.8	(s)	18.6	6.3 6.4	0.5	0.1	49.2	142.9 R 146.8	R 81.5 R 77.6	R 246.5 R 230.7 R 231.0 R 225.4 R 199.2 R 224.4 R 224.5
2015	0.0	66.0	0.8	15.0	(s)	15.8	5.2 4.3 4.2	0.5	B 0.1	47.0	R 128.2 R 127.8	R 68.5 R 65.0	R 196.7 R 192.8
2016	0.0	64.7	0.6	15.4	(s)	16.1	4.3	0.5	R 0.1 R 0.1	48.1	H 127.8 R 125.2	H 65.0 R 61.4	H 192.8
2017 2018	0.0 0.0	63.7 75.1	1.0 0.9	14.6 22.6	(s) (s)	15.6 23.6	4.2 5.2	0.5 0.5	R 0.1 R 0.2	46.8 50.6	'' 125.2 R 149.0	'' 61.4 R 65.9	R 186.5 B 214.7
2018	0.0	75.1 75.9	0.9	25.2	(8)	26.0	5.6	0.5 0.5 0.5 0.5 0.5	R <sub>0</sub> 2	49.5	R 148.8 R 152.1	R 65.8 R 56.2	R 214.7 R 208.3
2020		68.3	0.6	23.8	(s) 0.1	24.5	R 3.5 R 3.6	0.5	R 0.3 R 0.3	49.7	R 141.2	R 40.6 R 44.5	R 181.7
2020 2021	0.0 0.0	68.3 66.0	0.8	23.8 20.5	(s) (s)	24.5 21.4	R 3.6	0.5 0.5	R 0.3	49.7 50.0	R 141.2 R 136.3	R 44.5	R 181.7 R 180.8
2022	0.0	75.6	0.9	26.5	(s)	27.4	4.9	0.5	0.5	51.8	155.2	38.2	193.3

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, lowa

					Pet	troleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	373	28	1,046	390	94	178	232	1,940	NA			NA	1,812			
1965	211	28 39	941	558	54	194	232 135	1,882	NA			NA	2,797			
1970 1975	78 97	57 67	895 722	803 800	13 6	271 323	65 115	2,047 1,966	NA NA			NA NA	3,655 5,121			 
1980	71	51	751	458	5	350	79	1.642	NA NA			NA NA	5,502			
1985	217	48	1,167	352 323	7	237	1	1,765	NA			NA	6,306			
1990 1995	196 78	44 50	576 415	323 466	38 3	142 35	30 0	1,108 940	0			0	7,532 8,890			
2000	232	46	481	624	6	533	3	1,675	0			0	9,932			
2005	252	45	316	410	15	741	3	1.532	Ö			Ö	11,271			
2006 2007	276	43	632 247	521	4	1,359	3	2,568 2,451	0			0	11,660			
2007	290 257	46 56	374	531 699	3	1,609 1,483	0	2,451	0			0	12,084 12,178			
2009	265	57	512	1,038	i	1,759	ŏ	3,353	ŏ			ŏ	11,706			
2010	266	57 52 52 44 57	467	644	2	2,282	3	3,458	0			(s)	12,025			
2011 2012	247 213	52	680 969	782 602	2	2,142 2,141	0 3	3,638 3,780	0			(s)	12,088 12,210			 
2012	210	57	966	634	i	2,197	0	3,860	0			4	12,445			
2014	209	57	887	649	1	2,078	Ō	3,707	0			16	12,339			
2015	173	49	904 889	500	1	2,657	0	4,153	0			27	12,072			
2016 2017	130 122	49 50 57	1,003	510 559	1	552 560	0	2,004 2,208	0			36 56	12,291 12,135			
2018	104	57	1,019	932	2	568	Ö	2,583	ŏ			80	12,418			
2019	99	58	1,236	1,103	1	573	0	2,950	0			99	12,310			
2020 2021	76	51 51	1,236 850	1,079 738	3	575 579	0	2,913 2,201	0			129 146	11,606 12,135			
2022	82 91	58	910	668	i	2,895	0	4,556	0			173	12,470			
								Tril	lion Btu							
1960	8.0	28.8	6.1	1.5	0.5	0.9	1.5	10.5	NA	0.1	NA	NA	6.2	53.6	R 12.5	R 66.0
1965	4.5	39.1	5.5	2.1	0.3	1.0	0.9	9.8	NA	(s)	NA	NA	6.2 9.5	62.9	R 18.8	R 81.7
1970 1975	1.6 1.8	57.8 67.5	5.2 4.2	3.1 3.1	0.1 (s)	1.4 1.7	0.4 0.7	10.2 9.7	NA NA	(s)	NA NA	NA NA	12.5 17.5	82.1 96.5	R 25.5 R 35.7	R 107.6 R 132.2
1980	1.4	50.7	4.4	1.8	(s)	1.8	0.7	8.5	NA	(s) 0.3	NA	NA	18.8	79.7	R 39.9	H 119.6
1985	4.6	48.2	6.8	1.4	(s)	1.2	(s) 0.2	9.4	NA	0.3	NA	NA	21.5	76.0	H 43 7	R 119.7 R 133.7
1990	4.7	44.3	3.4	1.2	0.2	0.7	0.2	5.7	0.0	0.8	0.0	0.0	25.7	71.1	R 62.7 R 73.5	H 133.7 R 151.4
1995 2000	1.9 6.1	50.6 45.8	2.4 2.8	1.8 2.4	(s) (s) 0.1	0.2 2.8	0.0 (s)	4.5 8.2	0.0 0.0	1.0 1.0	0.1 0.2	0.0 0.0	30.3 33.9	78.0 89.0	H 83 0	R 171.9
2000 2005	6.1 5.9	45.4	1.8	1.6	0.1	3.8	(s) (s)	7.6	0.0	1.6	0.5	0.0	38.5	93.2	R 87.5	R 180.7
2006	6.5	44.0	3.7	2.0	(s)	7.0	(s) 0.0	13.0	0.0	1.6	0.5	0.0	39.8	98.7	R 89.4	R 188.1 R 193.1
2007 2008	6.8 5.9	46.8 56.7	1.4 2.2	2.0 2.7	(s)	8.3 7.6	0.0	12.1 12.7	0.0 0.0	1.4 1.2	0.5 0.6	0.0 0.0	41.2 41.6	103.7 112.9	R 89.4 R 87.6	R 200.5
2009	6.1	57.1	3.0	4.0	(s)	9.0	0.0	16.1	0.0	1.4	0.6	0.0	39.9	115.0	R 79 0	<sup>rt</sup> 194 0
2009 2010	6.1	52.0	3.0 2.7	2.5	(s)	11.6	(s)	17.1	0.0	1.3	0.7	(s)	41.0	112.4	R 78.6	R 191.0
2011	5.7 4.9	52.3 44.4	3.9	3.0	(s)	10.8	0.0	18.0	0.0	1.4 1.2	0.7	(s)	41.2	113.8	R 76.2	R 190.0 R 177.5
2012 2013	4.8	58.2	5.6 5.6	2.3 2.4	(s) (s)	10.8 11.1	(s) 0.0	19.1 19.5	0.0 0.0	1.3	0.7 0.7	(s) _ (s)	41.7 42.5	107.0 _ 121.8	R 70.6 R 69.4	H 191 1
2014	4.8 3.9	59.7	5.1 5.2	2.5 1.9	(s)	10.5	0.0	18.6	0.0	1.5 1.6	0.7	Roit	42.1 41.2	H 121 Q	H 66 4	R 188.3 R 175.4
2015	3.9	51.8	5.2	1.9	(s)	13.4	0.0	21.1	0.0		0.7	R 0.1 R 0.1		R 115.4 R 105.0	R 60.0 R 56.7	H 175.4
2016 2017	3.0 2.8	52.2 52.5	5.1 5.8	2.0 2.1	(s)	2.8 2.8	(s) 0.0	10.2 11.2	0.0 0.0	1.7 1.5	0.7 0.7	R 0.1	41.9 41.4	R 105 6	R 54.3	R 161.7 R 159.9
2018	2.4	60.2	5.9	3.6	(s)	2.9	0.0	12.7	0.0	2.1	0.7	Rna	42.4	H 115.7	R 54.3 R 55.1	H 170 7
2019	2.2	61.6	7.1	4.2	(s)	2.9 2.9	0.0	14.5	0.0	2.2 1.9	0.7	Rna	42.0	H 110 0	H 47 7	<sup>rt</sup> 166 8
2020 2021	1.7 1.8	54.1 54.4	7.1 4.9	4.1 2.8	(s) (s)	2.9 2.9	0.0 0.0	14.3 10.9	0.0 0.0	1.9 1.8	0.7 0.7	R 0.4 R 0.5	39.6 41.4	R 108.3 R 107.0	R 32.3 R 36.9	R 140.7 R 143.9
2021	2.0	61.9	5.2	2.6	(s)	14.6	0.0	22.9	0.0	1.6	0.7	0.6	42.5	127.8	31.3	159.1
					(-/				7			2.0	0			

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, lowa

-					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>C</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total <sup>f,k</sup>
1960	2,193	43 68	5,536 5,607	1,098	5,797 5,373	573 354	3,011	16,016	2 2				NA	2,676			
1965	2,464	68 99	5,607 5.884	1,815	5,373	354	3,471	16,620	2				NA NA	3,719			
1970 1975	1,955 1,333	121	5,884 4,670	2,949 5,593	5,391 3,791	261 279	3,913 3,130	18,398 17,463	1				NA NA				
1980	1,505 1,572	115	4.698	6.557	2,612	273	3.047	17,187	i				NA	9 318			
1985	1,572	87	4,971	4,893	1,703	179	2,729	14,475	1				NA	9,520			
1990 1995	2,353 2,761	90 113	4,807 5,636	3,087 12,267	1,072 1,038	94 92	2,046 2,228	11,105 21,260	0				0	11,392 13,771			
2000	2,902	100	6,027	13,368	784	140	3,232	23,551	ő				0	17,127			
2005	2,930	96	4,550	15,814	1,568	191	3,617	25,740	Ö				Ō	17,915			
2006	3,067	101	4,418	16,355	1,702	44 44	3,061	25,580	0				0	18,331			
2007 2008	3,009 2,904	141 162	4,683 5,633	11,945 13,971	1,394 1,102	170	2,538 2,531	20,604 23,407	0				0	19,125 19,237			
2009	2,682	165	5,544	14,638	1,152	66	2,192	23,591	ő				ŏ	18,211			
2010	3,348	167	6,119	14,586	1,320	20	1,733	23,778	0				(s)	18,865			
2011 2012	3,542 3,345	167 169	5,949 6,290	13,872 11,246	1,355 985	32 8	1,657 1,935 2,732	22,865 20,464	0				(s)	19,240 19,512			
2012	3,433	174	6,181	15,491	970	6	2.732	25,381	0				(s)	19,635		==	
2014	3,094	172	6,643	15,606	772	6	2,690	25,717	0				`í	20,436			
2015	2,849	179	7,657	14,474	748	0	2,386	25,265	0				1	21,289			
2016 2017	2,485 2,412	190 241	7,912 7,446	14,527 14,737	875 880	0 17	R 2,506 R 2,645	R 25,819 R 25,724	0				3	22,046 23,065			
2018	2,399	256	7,374	14,766	870	11	R 2,429	H 25,450	ő				4	23,953			
2019	2,326	250	7,967	15,817	797	16	н 2.399	R 26,996	0				5	24,239			
2020 2021	2,121 2,051	235 228	7,861 7,596	14,599 14,354	811 830	0 15	R 3,061 R 2,584	R 26,332 R 25,379	0				8	24,467 26,106			
2022	2,362	246	7,677	13,840	858	15	2,208	24,598	0		==		12		==		
									Trillion Bt	u							
1960	51.7	44.9	32.2	4.2	30.5	3.6	19.6	90.1	(s)	2.8	NA	NA	NA	9.1	198.6	R 18.4	R 217.0
1965 1970	57.5 43.0	68.9 99.9	32.7 34.3	6.9 10.8	28.2 28.3	2.2 1.6	22.0 24.8	92.0 99.8	(s) (s)	2.9 3.9	NA NA	NA NA	NA NA		234.1 264.7	R 25.0 R 37.3	R 259.0 R 302.0
1975	28.4	122.5	27.2	19.8	19.9	1.8	19.9	88.5		5.1	NA NA	NA NA	NA NA		267.1	R 46.2	H 313.3
1980	32.4	114.9	27.4	23.1	13.7	1.8 1.7	18.9	84.8	(s) (s)	37.8	NA	NA	NA	31.8	301.7	⊓ 67.6	n 369.3
1985	35.6	88.0	29.0	16.7	8.9	1.1	17.4	73.2	(s)	44.3	4.6	NA	NA			R 66.0 R 94.8	R 329.5
1990 1995	53.1 57.9	90.9 113.5	28.0 32.8	10.6 42.5	5.6 5.4	0.6 0.6	13.1 14.2	57.9 95.4	0.0		14.0 26.7	0.0 0.0	0.0 0.0	38.9 47.0	274.1 350.2	H 113 8	H 464 N
2000	60.9	100.6	35.1	45.7	4.1	0.9	20.7	106.4	0.0	24.9	26.9	0.0	0.0	58.4	364.4	R 143.0 R 139.0	R 507.4 R 544.3
2005	59.1	96.6	26.5	54.3	8.1	1.2	23.6	113.7	0.0		64.0	0.0	0.0	61.1	405.3	R 139.0	R 544.3
2006 2007	60.8 60.8	102.3 142.3	25.6 27.1	55.9 40.5	8.8 7.2	0.3 0.3	19.9 16.4	110.6 91.5	0.0		86.1 110.5	0.0	0.0		421.4 470.6	R 140.5 R 141.6	R 561.9 R 612.2
2007	57.5	164.1	32.6	47.1	5.6	1.1	16.4	102.7	0.0		131.3	0.0	0.0			R 138.3	R 659.3
2009	52.6	165.7 168.4	32.0	48.5	5.9	0.4	14.2	101.0	0.0	18.4	171.1	0.0	0.0	62.1	552.7	R 138.3 R 122.8 R 123.2	R 659.3 R 675.5 R 715.1
2010	66.0	168.4	35.3	46.6	6.7	0.1	11.1	99.9	0.0		192.9	0.0	(s)	64.4	591.9	H 123.2 E 121.3	H 715.1
2011 2012	70.3 63.6	168.7 171.2	34.3 36.3	43.8 36.1	6.9 5.0	0.2 0.1	10.7 12.5	95.9 90.0	0.0 0.0		203.4 194.7	0.0 0.0	(S)	65.6 66.6	597.0 576.7	R 112 g	R 680 /
2013	64.3	178.6	35.6	49.9	4.9		17.0	107.5	0.0		196.4	0.0	(s)	67.0	608.4	R 109 4	R 717 9
2014	58.7	179.0	38.3	50.4	3.9	(s) (s)	16.6	109.2	0.0	13.5	200.4	0.0	(s)	69.7	613.5	H 110 0	R 723.5 R 733.1 R 742.9
2015 2016	52.5 45.4	188.2 200.2	44.1 45.5	46.0 46.2	3.8 4.4	0.0 0.0	14.9 R 15.7	108.8 111.8	0.0		210.7 214.5	0.0	(s)	72.6 75.2	627.2 641.1	R 105.9 R 101.7	n 733.1
2016	45.4	254.6	45.5 42.9	46.2	4.4	0.0	R 16.5	R 110 9	0.0		224.3	0.0	(S)	75.2 78.7	R 700 3	R 103.2	R 803 4
2018	43.9	271.1	42.5	47.2	4.4	0.1	R 15.0	R 109 1	0.0	10.4	232.0	0.0	(s)	81.7	R 725.3	R 103.2 R 106.2	R 803.4 R 831.5
2019	42.8	265.6	45.9	51.2	4.0	0.1	H 1/1 Q	R 116 0	0.0		231.2	0.0	_ (s)	82.7	729 6	H 94 0	H 823.6
2020 2021	38.6 37.3	250.5 243.4	45.2 43.8	46.5 45.6	4.1 4.2	0.0 0.1	R 19.1 16.3	R 114.9 109.9	0.0 0.0	10.8 11.2	203.8 214.9	0.0 0.0	R (s) R (s)	83.5 89.1	R 681.5 R 685.4	R 68.1 R 79.3	R 749.6 R 764.7
2021	42.4	262.4	44.3	43.6	4.2	0.1	13.8	109.9	0.0		211.0	0.0	(s)		704.6	66.7	771.3
		_2=	0	. 5.0		5	. 5.0		0.0		•	0.0	(0)	50.0		30.7	

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, lowa

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
960	38	9	366	1,711	23	195	516	23,488	227	26,526	0			
965 970 975 980 985 990	8	11 18	358 256	1,711 1,991 4,339 6,851 7,924 8,094 9,352	23 55 58 53 34 90 42 58	195 232 725 835 813 592 891	480 501 522 475 534 510 544 459 447 462 429 386 345 334 298 313 328	25,224 30,039	15 26	28,354 35,923 43,359 41,909 38,858 41,389 45,793 48,888 53,668 54,713 56,004	0			
970 975	3	18 16	256	4,339 6,851	58 53	/25 835	480 501	30,039	26	35,923 43,350	0			
980	(s) 0	13	184	7.924	34	813	522	34,929 32,432 29,525 30,470	0	41,909	0			
985	0	10	83	8,094	90	592	475	29,525	0	38,858	0			
990	0	.9	99	9,352	42	891	534	30,470	(s)	41,389	0			
995 000 005 006 007	0	11 8	72	10,762 12,049 15,113	58	1,046 771 990	510	33,345 35,436 36,906	0	45,793	(s)			
005	0	12	139	15,049	62	990	459	36,430 36,906	0	53 668	(8)			
006	Ö	13 12	52	15,752 17,272	61 77	1,033 899	447	37,368 37,248	Ō	54,713	i			
007	0	12	45	17,272	.77	899	462	37,248	0	56,004	0			
800	0	14 14	77	16,555	135 138	786	429	36,697	0	54,678	0			
008 009 010	0	11	70	16,555 15,862 16,822	9	786 525 990	345	36,697 36,677 37,206	0	55,079	0			
011	ŏ	11	66	17.053		1.018	334	37,531	ŏ	56.009	ŏ			
011 012	Ö	10	58	16,338	8 7	1,064	298	35,392	0	53,157	Ö			
013	0	11	48	17,053 16,338 16,600 17,408	10	1,018 1,064 974 953	313	37,531 35,392 35,948 36,895	0	56,004 54,678 53,679 55,442 56,009 53,157 53,892 55,644 54,422 R 58,157 R 54,869 R 55,072 R 55,184 R 50,250	0			
014	0	13 11	50 48	17,408	9 12	1 051	328	36,895	0	55,644 54,422	0			
015 016	0	9	40	16,898 16,947 17,158	15	1,051 1,045	R 344	36,033 36,064 39,765 36,178 35,828 35,622	0	R 58 157	0			
017	ŏ	11	42	17,158	15 48	1,139	R 304	36,178	ŏ	R 54,869	ŏ			
018	0	12	42	17,566 17,882	204 217	1,139 1,143 1,139	R 289	35,828	0	R 55,072	0			
019	0	12 10	46	17,882	217	1,139	R 279	35,622	0	n 55,184	0			
020 021	0	8	42 45	17,845 R 17,128	30 29	1 004	348 R 344 R 304 R 289 R 279 R 256 R 265	31,269 34,985	0	R 54 314	0			
022	ő	8	191 184 83 99 72 78 139 52 45 77 92 70 66 58 48 50 48 40 42 42 42 45 46	17,483	30 29 32	808 1,004 1,122	284	34,638	ŏ	R 50,250 R 54,314 54,543	ő			
							Tri	Ilion Btu						
960 965 970 975 980 985	0.9 0.2 0.1	9.2 11.2 18.5	1.8 1.8 1.3	10.0 11.6 25.3	0.1 0.2 0.2	1.0 1.3	3.1 2.9 2.9 3.0 3.2 2.9 3.2 3.1 3.3	123.4 132.5 157.8	1.4 0.1	140.9 150.4 191.7	0.0 0.0 0.0	151.0 161.7 210.2	0.0 0.0	151.0 161.7 210.2 248.5 238.0 222.3
965	0.2	11.2	1.8	11.6	0.2	1.3	2.9	132.5	0.1	150.4	0.0	161.7	0.0	161.7
970 075	U. I	16.2	1.3	25.3	0.2	4.1	2.9	183.5	0.2 0.0	191.7	0.0	210.2	0.0 0.0	210.2
980	(s) 0.0	12.7	0.9	39.9 46.2 47.1	0.2	4.7 4.6 3.3	3.0	170.4	0.0	232.3 225.3 209.2	0.0 0.0 0.0	248.5 238.0 222.3	0.0	238.0
985	0.0	10.5	0.9 0.4	47.1	0.3	3.3	2.9	155.1	0.0	209.2	0.0	222.3	0.0	222.3
990	0.0 0.0	9.2	0.5 0.4	54.5 62.6	0.2 0.2	5.0	3.2	160.1 173.5	(s) 0.0 0.0	223.5	0.0 0.0	235.6	0.0 0.0	235.6
995	0.0	11.1 8.3	0.4 0.4	62.6 70.1	0.2	5.9	3.1	1/3.5 184.3	0.0	245.8	0.0 (s)	256.9	0.0	256.9
990 995 000 005 006 007 008 009 010	0.0	11.7	0.4	70.1 87 9	(s) 0.2 0.2	5.0 5.9 4.4 5.6 5.9	2.8	191.6	0.0	288.9	0.0	300.8	(s) 0.0	300.8
006	0.0 0.0	11.7 12.7	0.7 0.3	87.9 91.4	0.2	5.9	2.8 2.7	191.6 193.8	0.0 0.0	294.2	(s)	307.4	(s)	307.4
007	0.0 0.0 0.0	12.4 14.2	0.2 0.4 0.5 0.4	99.9 95.7 91.6	0.3 0.5 0.5	5.1	2.8	191.5 187.4 186.7 188.5	0.0 0.0 0.0	299.9	(s) 0.0	313.0	(s) 0.0	313.0
800	0.0	14.2	0.4	95.7	0.5	4.5	2.6	187.4	0.0	291.0	0.0	305.9	0.0	305.9
009	0.0	13.9 11.1	0.5	91.6 97.1	0.5	3.0	2.3	186.7	0.0	284.6	0.0 0.0	298.6	0.0 0.0	298.6
011	0.0	10.9	0.4	98.4	(s) (s) (s) (s)	5.1 4.5 3.0 5.6 5.8 6.0 5.5 5.4 6.0	2.8 2.6 2.3 2.1 2.0 1.8 1.9 2.0 2.1	190.0	0.0	223.5 245.8 262.5 288.9 294.2 299.9 291.0 284.6 293.8 296.6 281.5 285.3 294.7 288.1 R 306.9 290.3 291.5 R 292.2 267.1 R 887.6	0.0	235.6 256.9 270.9 300.8 307.4 313.0 305.9 298.6 304.9 307.5 291.8	0.0	307.5
012	0.0	10.3	0.3 0.3 0.2	98.4 94.2	(s)	6.0	1.8	179.2	0.0	281.5	0.0	291.8	0.0	235.6 256.9 270.9 300.8 307.4 313.0 305.9 298.6 304.9 307.5 291.8
013	0.0	11.7	0.2	95.7	(s)	5.5	1.9	181.9	0.0	285.3	0.0		0.0	297.0
014 015	0.0 0.0	13.2	0.3 0.2	100.3 97.4	(s)	5.4	2.0	186.7 182.4	0.0 0.0	294.7	0.0 0.0	307.9	0.0 0.0	307.9
015	0.0	11.5 9.4	0.2	97.4 97.6	(s) (s) 0.1	5.U 5.Q	∠. l 2 1	10∠.4 201.0	0.0	200.1 R 306 a	0.0 0.0	297.0 307.9 299.6 316.3 301.4 R 304.5 304.9 277.8 R 295.7 297.8	0.0	∠99.6 316.3
016 017	0.0	11.1	0.2 0.2 0.2	98.8	0.1	6.5	2.1 1.8 R 1.8	201.0 182.8	0.0	290.3	0.0 0.0	301.4	0.0	301.4
018	0.0	13.0	0.2	101.2	0.8	6.5	R 1.8	181.1	0.0	291.5	0.0	R 304.5	0.0	R 304.5
019	0.0	12.7 10.7	0.2	103.0	0.8	6.5	1.7 R 1.6	180.0 158.0	0.0	H 292.2	0.0	304.9	0.0	304.9
019 020 021	0.0 0.0	10.7	0.2 0.2 0.2 0.2	103.0 102.7 R 98.7	0.1 0.1	5.9 6.5 6.5 6.5 4.6 5.7	□ 1.6	158.0	0.0 0.0 0.0 0.0	267.1 B 207.6	0.0 0.0	2//.8 B 205 7	0.0 0.0	297.0 307.9 299.6 316.3 301.4 R 304.5 304.9 277.8 R 295.7 297.8
UZ I	0.0	8.1 8.6	0.2	100.8	0.1	6.4	1.6 1.7	176.7 174.9	0.0	289.1	0.0	295./	0.0	295.7

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, lowa

				Petro	leum		Needown		Biomass				Flankisk.	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million ki	lowatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	2,118	49	259	0	39	298	0	879		0	NA	NA	0	
1965	2,760	49 52 78	183	Ö	27	210	0	926		Ö	NA	NA	Ö	
1970 1975	4,030 4,936	78 47	327 507	0	49 214	375 722	0 2,291	934 877		0	NA NA	NA NA	0	
1980	10,745	7	168	0	63	231	2.563	945		0	NA NA	NA NA	0	
1985	12,491	2	101	0	2	103	1,927	988		0	0	0	1,059	
1990 1995	15,482 17,877	4 5	123 154	0	0 0	123 154	3,012 3,730	875 1,003		0	0	0	0	
2000	21,317	5	223	0	0	223	4,453	904		0	0	(s) 494	(s)	
2005	21,072	21	355 270	Ö	Ö	355	4,538	960		Ö	Ö	1,647	-1	
2006 2007	21,236 23,019	20 26	270 442	199 256	0	470 699	5,095 4,519	909 962		0	0	2,318 2,757	(s) (s)	
2007	24,734	18	180	152	0	332	5,282	819		0	0	4,084	(5)	
2009	22.607	10	128	53	Ō	180	4.679	971		Ö	Ö	7.421	Ö	
2010	24,780 22,677	13	183	134 138	0	317	4,451	948 925		0	0	9,170	0	
2011 2012	20,747	10 17	158 204	24	0	296 227	5,215 4,347	766		0	0	10,705 14,030	(s) (s)	
2013	19,517	12 10	183 127	0	Ō	183 127	5,321 4,152	749		0	Ö	15,565	0	
2014 2015	19,705	10 16	127 94	0	0	127 94	4,152 5,243	879 960		0	0	16,303 17,870	0	
2015	16,840 14,289	21	164	0	0	164	5,243 4,703	960		0	(s)	20,068	0	
2017	14,478	29	121	ŏ	ŏ	121	5.214	1.034		ŏ	5	21,368	ŏ	
2018	16,230	47 47	130 137	0	0	130 137	4,895 5,236	925 796		0	11	21,331	0	
2019 2020	12,787 8,199	47	137 132	0	0	137	5,236 2.905	796 1,025		0	15 22	26,301 34,178	0	
2021	13,022	42 55	247	ŏ	Ö	247	0	980		Ō	225	37,095	ŏ	
2022	10,550	55	233	0	0	233	0	1,010		0	386	45,757	0	
							Trillion Btu							
1960 1965	44.0 58.6	50.3 52.8	1.5 1.1	0.0 0.0	0.2 0.2	1.8 1.2	0.0 0.0	R 3.0 R 3.2	0.3 0.3	0.0 0.0	NA NA	NA NA	0.0 0.0	R 99.3 R 116.0
1970	84.2	78.6	1.9	0.0	0.2	2.2	0.0	R 3.2 R 3.0	0.3	0.0	NA NA	NA NA	0.0	R 168.6
1975	100.6	78.6 47.3	3.0	0.0	1.3	4.3	0.0 25.2	R 3.0	0.4	0.0	NA	NA	0.0 0.0	R 168.6 R 180.9
1980 1985	200.2 227.3	6.9 2.1	1.0 0.6	0.0 0.0	0.4 (s)	1.4 0.6	28.0 20.5	R 3.2 R 3.4 R 3.0	0.3 0.6	0.0 0.0	NA 0.0	NA 0.0	0.0 3.6	R 240.0 R 257.8
1990	276.0	4.2	0.7	0.0	0.0	0.0	31.9	R 3.0	0.2	0.0	0.0	0.0	0.0	H 315 N
1995	312.2	4.2 4.7	0.9	0.0	0.0	0.9	39.2	нз∡	0.7	0.0	0.0	(s) R 1.7	0.0	R 360.1 R 435.7
2000 2005	378.2 364.2	4.8 21.4	1.3	0.0 0.0	0.0 0.0	1.3	46.4 47.4	R 3.1 R 3.3	0.8 1.0	0.0 0.0	0.0	n 1.7	(s)	R 435.7 R 441.9
2005	367.3	19.7	2.1 1.6	1.1	0.0	2.1 2.7	53.2	R 3.1	1.1	0.0	0.0	R 5.6 R 7.9	(s) (s)	n 452.0
2007	396.8	26.2	2.6 1.0	1.5	0.0	4.0	47.4	R 3.1 R 3.3 R 2.8 R 3.3	1.5	0.0	0.0	Наи	(s)	H 485 6
2008 2009	421.8 385.9	17.8 10.1	1.0 0.7	0.9 0.3	0.0 0.0	1.9 1.0	55.2 48.9	n 2.8	1.7 1.5	0.0 0.0	0.0 0.0	R 13.9 R 25.3	(s) 0.0 0.0	R 513.4 R 474.9
2010	421.7	12.7	1.1	0.8	0.0	1.8	46.5	H32	1.5	0.0	0.0	H 31.3	0.0	R 517.3
2011	387.1	10.0	0.9	0.8	0.0	1.7	54.6	R 3 2	1.4	0.0	0.0	R 36.5	(s)	H 493 4
2012 2013	354.1 333.3	16.9 12.4	1.2 1.1	0.1 0.0	0.0 0.0	1.3 1.1	45.6 55.6	R 2.6	1.4 1.4	0.0 0.0	0.0 0.0	R 47.9 R 53.1	(s) 0.0	R 467.8 R 458.2
2013	333.3	12.4		0.0	0.0	0.7	55.6 43.4	R 2.6 R 3.0	1.4	0.0	0.0	R 55 6	0.0	R 452 1
2015	291.8	17.1	0.7 0.5	0.0	0.0	0.5	54.8	н з.з	1.9	0.0	0.0	R 61.0	0.0	n 428.8
2016	249.6	22.1	0.9	0.0	0.0	0.9	49.2	R 3.1 R 3.5	1.9	0.0	(s)	R 68.5 R 72.9	0.0	R 393.3
2017 2018	252.9 279.3	31.2 50.8	0.7 0.7	0.0 0.0	0.0 0.0	0.7 0.7	54.5 51.2	R 3.5	1.9 1.8	0.0 0.0	R (s)	R 72 8	0.0 0.0	R 414.8 R 455.6
2019	221.3	51.1	0.8	0.0	0.0	0.8	54.7	R 2 7	1.6	0.0	0.1 R 0.1	H 90 7	0.0	H 418 2
2020	142.7	47.4	0.8	0.0	0.0	0.8	30.3	R 3.5	1.8	0.0	R 0.1	n 116.6	0.0	н 339.3
2021 2022	225.3 183.5	45.9 58.9	1.4 1.3	0.0 0.0	0.0 0.0	1.4 1.3	0.0 0.0	R 3.3 3.4	1.8 1.6	0.0 0.0	R 0.8 1.3	R 126.6 156.1	0.0 0.0	R 401.2 401.8
	100.0	30.3	1.0	0.0	0.0	1.0	0.0	0.1	1.0	0.0	1.0	100.1	0.0	101.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Kansas

						Petroleum								
		Natural	Distillate		Jet	Motor	Residual			- Nuclear	Hydro- electric		Fuel	
	Coal	gas <sup>a</sup>	fuel oil b	HGL <sup>c</sup>	fuel <sup>d</sup>	gasoline <sup>e</sup>	fuel oil	Other <sup>f</sup>	Total	electric power	power <sup>g</sup>	Wind	ethanol h	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	d barrels
1960	675	361	4,739	5,590	952	23,712	2,403	9,602	46,998	0	20	0	NA	NA
1965 1970	644 458	443 576	5,257 7,550	6,521 8,009	1,053 1,561	25,525 28,849	1,066 1,127	12,322 10,093	51,744 57,189	0	13 7	0	NA NA	NA NA
1971	459	607	8.385	7.769	1.525	29.136	811	10.038	57,665 62,531	Ö	7	Ö	NA	NA
1972 1973	531 1,185	628 604	9,010 10,303	8,293 8,472	1,452 1,399	31,075 31,273	2,256 2,541	10,445 11,931	65 919	0	5 3	0	NA NA	NA NA
1974 1975	1,952	587 499	10,778	8,439 8,857	1,404 1,310	31,000	2,791	11,733 11,479	66,144 71,288	Ö	7	Õ	NA	NA
1975 1976	3,117 3,597	499 515	11,273 12,071	8,857 9,952	1,310 1,239	32,004 33,850	6,365 6,220	11,479 11,721	71,288 75,052	0	5 5	0	NA NA	NA NA
1977	4,682	507	12,456	9,952 10,087	1,239 1,426	33,273	6,282	12.652	75,052 76,175	Ö	3	Ō	NA	NA NA
1978 1979	7,469 7,878	519 584	14,250 19,555	9,046 9,862	1,506 1,922	33,496 31,885	6,771 4,718	13,062 13,355	78,131 81,298	0	5 4	0	NA NA	NA NA
1980	10.370	488	19,555 14,764	8 404	2 466	29.584	1,498	12.696	69 413	Ö	8	Ō	NA	NA
1981 1982	11,684 11,895	428 401	13,414 13,814	7,438 11,948 12,021 26,692	2,442 1,834	29,272 28,588	1,037 1,028	9,086 7,717	62,688 64,927	0	8 7	0	39 18	NA NA
1983 1984	13,103 15,565	346	14,009 14,764	12,021	1 492	28,603 28,499	1,956 1,154	8,157	66,237 83,266	Ö	6	0	157	NA
1984 1985	15,565 14,715	364 355	14,764 14,902	26,692 24,510	3,338 4,424	28,499 28,209	1,154 86	8,820 7,578	83,266 79,710	0 3,856	7	(s)	612 529	NA NA
1985 1986	14,359	355 313	14,229	16,615	7,038	28,453	86 487	9,182	79,710 76,003	6,959	8	(s) (s)	529 505	NA
1987	15,194 14,951	328 353	17,068 16,751	16,113 19,029	4,285 4,176	29,123 30,819	353 811	9,687 12,484	76,628 84,070	6,471 6,650	9 12	(s) (s)	341 294	NA NA
1988 1989	14.963	341	16 095	18.889	3.833	29,852	811 367	11.408	80.445	9.709	10	(s)	286	NA
1990 1991	15,175 14,881	353 371	16,697 15,624	15,565 13,293	3,701 3,296	28,626 28,041	229 128	12,171 10,045	76,989 70,426	7,874 5,859	13 11	(s) (s)	175 170	NA NA
1992 1993	14,227 17,386	343 392	14,895 16,016	16,816 8,269	4 164	27,821 28,480	178	10,654 9,565	74,528 66,316	8 491	10 5	(s)	167 145	NA
1993 1994	17,386 17,158	392 416	16,016 14,687	8,269 7,754	3,617 1,981	28,480 29,073	369 187	9,565 11,235	66,316 64,917	7,900 8,529	.5 10	(s)	145 137	NA NA
1995	16,521	367	18,223	7,754 4,924 10,442	2,414	29,402	31	10,169	64,917 65,162	10,062	11	(s) (s) 0	110	NA NA
1996	19,084 17,673	362	16,570 16,375	10,442	2,009	30,927	289 257	10,310	70.548	8,205 8,430	11 14	0	68 68	NA NA
1997 1998	17.736	338 327	16,375 15,930	14,557 14,121	2,131 2,159	30,695 32,001	257 269	8,941 8,789	72,955 73,270	10.411	11	Ö	84	NA
1999 2000	19,003 20,845	303 312	15,660 14,849	21,741 17,401	3,476 3,234	33,550 31,894	570 937	9,064 8,446	84,060 76,762	9,157 9,061	12 15	0	140 62	NA NA
2001	20,316 22,838	272	15.550	11.122	2.259	30.297	1.301	11.152	71 680	10.347	26	40	58	4
2002 2003	22,838 22,738	305	16,359 17,100	10,659 16,944	2,135 3,228	28,571 32,721	991 2,160	10,389 9,969	69,105 82,121	9,042 8,890	13 12	467 366	705 999	7 5
2004	22,341	272 305 281 257 255	17,155	14,808 2,768	3,104	31.815	2,184 2,055	10,269	79,336 62,510	10,133	13	359 426	100	11 36
2005	22,251	255	18,147	2,768	1,758	28,162	2,055 619	9,620	62,510	8,821 9,350	11 10	426	747 752	36 104
2006 2007	21,110 23,020	264 287	18,969 19,391	1,875 17,592	1,752 1,543 1,735 2,447	31,603 31,979	464	9,633 9,506	64,452 80,474	10,369	11	992 1,153	753 1,448	141
2008 2009	21,779 20,888	283 287	20,104 19,471	3,651 3,541	1,735	31,204 31,768	1,220 445	8,502 8,484	66,416 66,155 66,185 62,999 62,842	8,497 8,769	11 13	1,759 2,863	2 628	121 128
2010	21.076	275	19 146	3,541 3,229 3,117	1 906	31 771	361	9.771	66,185	9 556	13	3,405	2,532 2,518 2,538 2,396	104
2011	20,233	280 262	18,620 18,737	3,117 2,503	1,730 1,900	30,677 30,718	274 250	8,581 8,734	62,999	7,319	13 15 10	3,720	2,538	104 354 349
2012 2013	17,847 19,000	262 283	21 710	2,503 2,925	1.124	30 874	176	8,734 8,262	65,070	8,285 7,168	10	5,195 9,433	2,396 2,446	644
2014	18,320	283 285 271	24,264 22,481	2,925 3,143 3,074	1,690	31,364	180 243	8,262 7,816	68,457	7,168 8,558 8,630	15 16	10,845	2,690	654 536
2015 2016	15,967 14,690	2/1 267	20 719	3,074 2,368	1,245 1,521	30,729 32,595	574	8,050 R 8,267 R 8,238 R 8,251 R 8,479	65,070 68,457 65,821 R 66,045 R 64,602 R 66,110 R 68,052 R 64,397	8.246	19 31	10,999 14,111	2,446 2,690 2,945 3,088 2,985	732
2017	14,690 12,654	267 270	21,042	2,368 2,363	1,521 1,197	32,595 31,162	600	R 8,238	R 64,602	10,648	29	18,598	2,985	732 629 597 R 469
2018 2019	13,293 11,615	310 307	22,498 22,208	2,952 3,362	1,367 1,299	30,685 32,208	358 497	R 8,479	R 68.052	9,168 9,248	26 20	18,908 21,124	2,909 3,101	8 469
2020	11.319	R 291	21 683	3 097	1.115	29,618	569	n 8.315	R 64,397	10.582	32	23,964	2 848	613 R 508
2021 2022	12,651 13,139	307 R 291 R 282 309	R 21,168 23,239	2,925 3,151	1,295 1,441	30,057 28,820	493 505	R 8,965 8,849	R 64,903 66,005	8,575 8,982	30 24	25,694 29,687	2,906 2,809	508 557
	.5,.50		20,200	5,.51	.,	20,020		5,510		0,002		20,007	2,000	

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Kansas (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
						Petroleum						as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	15.7	373.7	27.6	21.4	5.1	124.6	15.1	58.7	252.4	641.8	373.7	27.6	124.6
1965 1970	15.3	440.8	30.6	25.0 30.4	5.7 8.6	134 1	6.7	74.8	276.8	732.9 888.2	440.8 574.5	30.6	134.1
1970 1971	10.7 10.8	574.5 605.8	44.0 48.8	30.4 29.4	8.6 8.4	151.5 153.1	7.1 5.1	61.3 61.5	302.9 306.3	888.2 922.9	574.5 605.8	44.0 48.8	151.5 153.1
1971	12.4	626.9	52.5	31.4	8.0	163.2	14.2	63.8	333.1	972.3	626.9	52.5	163.2
1973	24.6	597.2	60.0	31.9	7.7	164.3	16.0	73.0	352.9	974.7	597.2	60.0	164.3
1974	39.1	578.8	62.8	31.6	7.7	162.8	17.5	71.8	354.4	972.3	578.8	62.8	162.8
1975 1976	62.3 73.4	490.7 505.4	65.7 70.3	33.1 37.0	7.2 6.8	168.1 177.8	40.0 39.1	70.0 71.4	384.1 402.4	937.1 981.2	490.7 505.4	65.7 70.3	168.1 177.8
1977	89.5	497.3	72.6	37.1	7.9	174.8	39.5	77.1	409.0	995.8	497.3	72.6	174.8
1978	136.8	508.0	83.0	33.3 35.8	8.4	176.0 167.5	42.6 29.7	80.1	423.3 439.1	1,068.2	508.0	83.0	176.0
1979 1980	147.5 191.6	571.3 482.0	113.9 86.0	35.8 30.4	10.7 13.8	167.5 155.4	29.7 9.4	81.5 77.6	439.1 372.7	1,157.9 1,046.2	571.3 482.0	113.9 86.0	167.5 155.4
1981	212.9	422.6	78.1	26.7	13.6	153.4	6.5	56.4	335.1	970.6	422.6	78.1	153.8
1982	212.5	400.5	80.5	42.0	10.2	150.2	6.5	47.8	337.1	950.1	400.5	80.5	150.2
1983 1984	231.2 274.8	345.9 360.8	81.6 86.0	42.2 91.7	8.2 18.7	150.3 149.7	12.3	49.9 54.1	344.5 407.4	921.5 1,043.0	345.9 360.8	81.6 86.0	150.3 149.7
1985	274.6 259.5	354.8	86.8	84.6	24.8	149.7	7.3 0.5 3.1	46.9	391.9	1,043.0	354.8	86.8	148.2
1986	251.7	308.0	82.9	58.4	39.7	149.5	3.1	57.3	390.8	950.5	308.0	82.9	149.5
1987	267.4	343.2	99.4	57.1	24.1	153.0 161.9	2.2	59.7	395.6 432.7	1,006.1	343.2 348.0	99.4	153.0
1988 1989	269.3 267.9	348.0 338.6	97.6 93.8	67.2 67.5	23.4 21.5	156.8	5.1 2.3	77.5 69.9	432.7	1,050.0 1,018.3	338.6	97.6 93.8	161.9 156.8
1990	271.7	352.6	97.3	54.3	20.7	150.4	1.4	75.0	399.1	1,023.5	352.6	97.3	150.4
1991	268.5 253.3 302.6	373.2	91.0	46.3	18.3	147.3	0.8	62.9	366.7	1,008.4	373.2	91.0	147.3
1992 1993	253.3 302.6	338.8 386.5	86.8 93.3	58.7 28.9	23.2 20.2	146.1 148.1	1.1 2.3	66.2 59.8	382.1 352.6	974.1 1,041.7	338.8 386.5	86.8 93.3	146.1 148.6
1994	301.0	415.6	85.5	27.5	11.0	151.1	1.2	70.5	346.7	1,063.2	415.6	85.5	151.6
1995	289.7	367.7	106.1	17.7	13.7	152.6	0.2	63.6	353.8	1,011.3	367.7	106.1	153.0
1996 1997	338.3 310.9	360.9 338.6	96.4 95.3	36.8 51.3	11.4 12.1	160.9 159.5	1.8 1.6	64.0 54.8	371.4 374.6	1,070.7 1,024.1	360.9 338.6	96.4 95.3	161.2 159.8
1998	309.4	325.0	92.7	49.9	12.2	166.2	1.7	54.4	377.1	1,024.1	325.0	92.7	166.5
1999	329.3	302.0	91.1	76.4	19.7	174.0	3.6	55.7	420.5	1,051.8	302.0	91.1	174.5
2000 2001	362.8 354.6	314.9 273.9	86.4 90.5	60.8	18.3 12.8	165.7 157.4	5.9 8.2	52.2 69.4	389.4 377.2	1,067.0 1,005.8	314.9 273.9	86.4 90.5	165.9 157.6
2001	391.7	273.9 307.4	90.5 95.2	39.0 37.7	12.0	146.1	6.2	64.6	361.9	1,061.0	307.4	90.5 95.2	137.6 148.5
2003	389.5	284.7	99.5	59.5	18.3	166.6	13.6	61.6	419.2	1,093.3	284.7	99.5	170.1
2004 2005	385.5 379.8	260.1 258.7	99.8 105.6	51.9 10.6	17.6 10.0	165.0 143.6	13.7 12.9	64.1 59.2	412.1 341.9	1,057.7 980.4	260.1 258.7	99.8 105.6	165.3 146.2
2005	379.8 364.2	269.3	110.1	7.2	9.9	161.3	3.9	59.2 59.3	341.9 351.7	980.4 985.2	269.3	110.1	146.2 163.9
2007	396.3	291.7	112.2	60.8	8.7	159.4	2.9 7.7	58.3	402.3	1,090.3	291.7	1122	164.4
2008	371.8	292.5	116.2	13.8	9.8	150.2	7.7	52.0	349.7	1,014.0	292.5	116.2	159.3
2009 2010	356.1 359.9	292.4 280.4	111.5 110.0	13.3 12.4	13.9 10.8	152.9 152.3	2.8 2.3	52.0 60.3	346.5 348.0	995.0 988.4	292.4 280.4	112.5 110.6	161.7 161.0
2011	346.5	285.3	106.0	12.0	9.8	146.5	1.7	52.5	348.0 328.5	960.4	285.3	107.4	155.3
2012	307.6	268.1	106.5	9.6	10.8	147.2	1.6	53.7	329.3 338.7	904.9	268.1	108.1	155.5
2013 2014	326.8 316.6	288.3 291.5	121.6 136.1	11.2 12.1	6.4 9.6	147.7 149.3	1.1 1.1	50.7 48.0	338.7 356.2	953.8 964.2	288.3 291.5	125.1 139.8	156.2 158.7
2015	273.4	280.4	125.9	11.8	7.1	145.2	1.5	49.4	340.9	894.8	280.4	129.5	155.4
2016	253.1	276.4	115.0	9.1	8.6	154.0	3.6	52.0	R 342.5 R 335.4	872.0	276.4	119.3	164.8
2017 2018	216.7 227.7	279.1 321.8	117.2 125.7	9.1 11.3	6.8 7.8	147.1 144.9	3.8 2.2	R 51.6 R 51.8	R 335.4 R 343.8	R 831.3 R 893.3	279.1 321.8	121.1 129.6	157.5 155.1
2019	197.8	320.0	124.2	12.9	7.4	151.9	3.1	R 53 0	R 352.6 R 334.7	R 870 3	320.0	127.9	162.7
2020	193.8	R 301 0	121 2	11.9	6.3	139.7	3.6	R 52.0	R 334.7	H 829.5	R 301.0	124.8	149.6
2021 2022	219.0 226.7	R 291.8 318.0	R 120.4 132.2	11.2 12.1	7.3 8.2	141.7 135.7	3.1 3.2	R 56.1 55.4	338.3 345.0	R 849.1 889.7	R 291.8 318.7	R 122.0 134.0	151.8 145.5
2022	220.7	310.0	102.2	14.1	0.2	100.7	0.2	55.4	J <del>4</del> J.U	003.7	310.7	104.0	140.0

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Kansas (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	mass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 0.1 R (s) R (s) R (s)	3.9	NA	NA	NA	NA	3.9	0.0	NA	NA	R 4.0	R -25.4 R -26.7 R -35.1 R -37.0 R -35.3 R -32.8 R -39.4	0.0	R 620.4
1965 1970	0.0 0.0	H (s) R (s)	3.4 3.7	NA NA	NA NA	NA NA	NA NA	3.4 3.7	0.0 0.0	NA NA	NA NA	R 3.4 3.7	H -26.7 R -35.1	0.0 0.0	R 709.6 R 856.7
1971	0.0	R (S)	3.9	NA	NA	NA	NA	3.9	0.0	NA	NA	3.9	R -37.0	0.0	R 889.7 R 942.7
1972 1973	0.0 0.0	(s) (s) R (s)	5.7 6.0	NA NA	NA NA	NA NA	NA NA	5.7 6.0	0.0 0.0	NA NA	NA NA	5.7 6.0	n -35.3 R -32 8	0.0 0.0	R 942.7
1974	0.0	R (S)	5.8	NA	NA	NA	NA	5.8	0.0	NA	NA	5.9	R -39.4	0.0	R 947.9 R 938.7
1975 1976	0.0	(s) R (s) (s)	5.8 6.5	NA NA	NA NA	NA NA	NA NA	5.8 6.5	0.0 0.0	NA NA	NA NA	5.8 6.5	R -39.3 R -34.8 R -36.8	0.0 0.0	R 903.6 R 952.9
1977	0.0 0.0	(s)	6.5 6.8	NA	NA	NA	NA	6.5 6.8	0.0	NA	NA	6.5 R 6.8	R -36.8	0.0	H 965 8
1978 1979	0.0 0.0	(s)	7.5 7.9	NA NA	NA NA	NA NA	NA NA	7.5 7.9	0.0 0.0	NA NA	NA NA	7.5 _ 7.9	n -58.6 R -53.2	0.0 0.0	R 1,017.0 R 1,112.5
1980	0.0	R (s)	9.0	NA	NA	NA	NA	9.0	0.0	NA	NA	R 9.0	R -53.6	0.0	R 1,001.6 P 927.8
1981 1982	0.0 0.0	(s) R (s) R (s) R (s) R (s)	8.1 9.7	0.1 0.1	NA NA	NA NA	0.2 0.6	8.4 10.3	0.0 0.0	NA NA	NA NA	R 8.4 R 10.3	R -58.6 R -53.2 R -53.6 R -51.2 R -38.7 R -40.3 R -64.6 R -70.9	0.0 0.0	H 927.8 R 921.8
1983	0.0	R (s)	9.0	0.5	NA	NA	1.1	10.6	0.0	NA	0.0	10.5 10.7 R 14.6	R -40.3	0.0	R 891 9
1984 1985	0.0 41.0	H (s) R (s)	11.1 11.5	2.1 1.8	NA NA	NA NA	1.4 1.4	14.6 14.8	0.0 0.0	0.0 0.0	(s) (s) (s) (s) (s)	<sup>H</sup> 14.6 14.8	H -64.6 R -70.0	0.0 0.0	R 993.1 R 991.0
1986 1987	73.6	R (s) R (s) R (s) R (s)	18.5	1.8	NA	NA	1.5	21.7	0.0	0.0	(s)	21.8	R -93.0 R -96.6	0.0	R 952 8
1987 1988	67.6 70.5	H (s) R (s)	17.6 18.9	1.2 1.0	NA NA	NA NA	1.7 1.7	20.4 21.6	0.0 0.0	0.0 0.0	(s)	20.5 R 21.6	H -96.6 R -88.6	0.0 0.0	R 997.5
1989	102.8	R (s)	15.0	1.0	NA	NA	1.6	17.6	(s)	(s)	(s)	H 17 6	R -88.6 R -115.3	0.0	R 1,053.5 R 1,023.3
1990 1991	83.3 61.4	H (s) R (s)	11.8 12.0	0.6 0.6	NA NA	NA NA	1.3 1.5	13.7 14.1	(s) 0.1	(s) (s)	(s)	R 13.8 R 14.2	-46.3 -13.6	0.0 0.0	R 1,074.3 R 1,070.4
1992	88.9	R (s) R (s) R (s) R (s)	12.1	0.6	NA	NA	1.3	14.0	0.1	(s)	(s) (s) (s) (s) (s) (s) (s)	14.2	-19.9	0.0	<sup>n</sup> 1.057.3
1993 1994	83.0 89.1	R (s) R (s) R (s) R (s) R (s) R (s) R (s)	10.9 10.3	0.5 0.5	NA NA	NA NA	1.9 2.1	13.3 12.8	0.1 0.1	(s) (s)	(s)	13.5 R 13.0	-52.3 -53.6	0.0 0.0	1,085.8 1,111.8
1995	105.7	R (s)	10.3	0.4	NA	NA	1.9	12.7	0.1	(s)	(s)	12.9 R 11.7	-51.6	0.0	H 1.078.3
1996 1997	86.2 88.5	H (s)	10.5 8.4	0.2 0.2	NA NA	NA NA	0.8 1.3	11.5 10.0	0.2 0.2	(s) (s)	0.0 0.0	H 11.7	-58.9 -21.8	0.0	R 1,109.6 R 1,101.1
1998	109.2	R (s)	8.4 7.7	0.3	NA	NA	1.5	9.5	0.2	(s)	0.0	10.3 R 9.8	-41.8	(s) (s) (s) (s) 0.0	1 088 8
1999 2000	95.7 94.5	H (s)	7.9 7.6	0.5 0.2	NA NA	NA NA	1.4 1.6	9.7 9.5	0.3 0.3	(s) (s)	0.0 0.0 R 0.1	10.1 R 9.8	-49.3 -55.3	(s)	R 1,108.2 R 1,116.0
2001	108.1	B O 1	8.0	0.2	(s)	NA	1.8	10.0	0.3	(s)	B 0.1	R 10.5 R 16.3	60.8	0.0	R 1,063.5 R 1,096.7
2002 2003	94.4 92.6	R (s) R (s) R (s) R (s) R (s)	8.1 8.3	2.4 3.5	(s)	NA NA	3.8 5.9	14.4 17.7	0.3 0.4	(s) (s)	R 1.6 R 1.2 R 1.2	H 16.3 H 19.4	-60.8 R -75.0 R -67.4 R -61.4	0.0 0.0	R 1,096.7 R 1,137.9
2004	105.7	R (s)	8.4	0.3	(s) 0.1	NA	6.6	15.4	0.5	(s)	R 1.2	H 17 1	R -61.4	(s)	
2005 2006	92.1 97.6	H (s)	7.6	2.6	0.2 0.6	NA NA	7.7 10.0	18.1 17.9	0.5 0.6	(s) (s)	H15	R 20.1 R 21.9	H -28.3	(s) (s) 0.0	H 1,064.3
2007	108.8	R (s)	4.7 5.1	2.6 5.0	0.8	NA NA	13.1	24.0	0.6	(S) (S)	R 3.4 R 3.9	R 28.7	R -76.7	(s) 0.0	R 1,064.3 R 1,089.4 R 1,151.0 R 1,109.1
2008	88.8	R (s) R (s) R (s) 0.1 R (s) R (s) R 0.1	5.6 5.7	9.1 8.8	0.6 0.7	NA NA	24.7 22.6	40.1 37.8	0.7 0.8	(s)	R 6.0	R 46.8	R -28.3 R -15.2 R -76.7 R -40.6 R -63.1 R -51.5 R -19.9 R -12.8 R -58.1 R -63.3	0.0	R 1,109.1 R 1,072.1
2009 2010	91.7 99.9	R (s)	6.9	8.7	0.6	NA NA	24.8	41.0	0.8	(s) (s)	R 9.8 R 11.6 R 12.7	R 48.4 R 53.6	R -51.5	(s) 0.0	H 1.090.3
2011	76.6	0.1	8.8	8.8	1.9	0.0	24.7	44.2 39.5	1.0	(s)	R 12.7	R 57.9 R 58.3	R -19.9	0.0	n 1 n7// a
2012 2013	86.8 74.9	R (s)	7.6 8.5	8.3 8.5	1.9 3.5	0.0 0.0	21.7 21.4	39.5 41.8	1.0 1.0	B \c\	R 32.2	R 75.1	R -58.1	0.0 0.0	R 1,037.2 R 1,045.6
2014	89.5	R 0.1 R 0.1	7.6 8.5 8.5 7.2	9.3	3.5	0.0	26.2	47.5	1.0	R (s) R (s)	R 17.7 R 32.2 R 37.0 R 37.5	R 85.6 R 84.8	R -63.3	0.0	R 1,076.0 R 1,040.6
2015 2016	90.3 86.2	R 0 1	6.4	10.2 10.7	2.9 3.9 3.4	0.0 0.0	25.9 26.4 27.1	46.2 _ 47.5	1.0 1.0	0.1	R 48.1	H 96.8	R -37.2 R -69.1	0.0 0.0	H 1 017 8
2017	111.4	R 0.1 R 0.1	6.4 R 6.3 R 8.1	10.4	3.4	0.0	27.1	R 47.1 R 49.3	1.0	0.1 R 0.1 R 0.1	R 48.1 R 63.5 R 64.5 R 72.1	<sup>H</sup> 111.7	R -69.1 R -60.4	(s) 0.0	R 1,043.7
2018 2019	95.9 96.6	R 0.1	R 7 g	10.1 10.8	3.2 2.5	0.0 0.0	27.9 28.4	49.5	1.0 1.0	Rno	R 72.1	R 115.0 R 122.8	R -59.4	0.0	R 1 030 3
2020	110 5	R 0.1	R 6.3	9.9	2.5 3.3	0.0	28.2	H 47 6	1.0	R 0.4	R 81.8 R 87.7	<sup>R</sup> 130.8	R -59.4 R -100.2 R -106.5	0.0	H 970 7
2021 2022	R 89.4 93.7	R 0.1 0.1	R 5.8 6.7	10.1 9.8	2.7 3.0	0.0 0.0	28.0 30.2	R 46.6 49.6	1.0 1.0	R 0.4 0.6	101.3	R 135.8 152.5	□ -106.5 -135.2	0.0 0.0	R 967.8 1,000.7
			<b></b>									.02.0			.,,,,,,,,,,,

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Kansas

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet	'		1	housand barrels	S	<u>'</u>		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	240	279	4,629	5,590	952	23,712	2,161	9,602	46,647	0					7,019			
1970	114	408	7,375	8,009	1,561	28,849	743	10,093	56,629	0					13,864			
1980	336	387	14,382	8,404	2,466	29,584	1,006	12,696	68,539	0					21,840			
1990 2000	157 145	326 279	16,567 14,580	15,565 17,401	3,701 3,234	28,626 31,894	208 404	12,171 8,446	76,838 75,959	0					27,149 35,921			
2005	205	241	18.012	2,768	1,758	28,162	333	9,620	60.653	0					39.024			
2006	237	242	18,847	1,875	1,752	31,603	619	9,633	64,330	0					39,751			
2007	241	261	19,297	17,592	1,543	31,979	464	9,130	80,004	0					40,166			
2008	162	256	20,013	3,651	1,735	31,204	1,220	8,244	66,067	0					39,965			
2009 2010	105 111	255 247	19,385 19,049	3,541 3,229	2,447 1,906	31,768 31,771	445 361	8,216 9,573	65,801 65,888	0					38,243 40,421			
2010	104	249	18,533	3,117	1,730	30,677	274	8,515	62,846	0					40,760			
2012	88	230	18,659	2,503	1,900	30,718	250	8,734	62,763	0					40,293			
2013	85	260	21,601	2,925	1,124	30,874	176	8,262	64,961	0					39,847			
2014	121	266	24,147	3,143	1,690	31,364	180	7,816	68,341	0					40,562			
2015 2016	115 104	256 247	22,371 20,652	3,074 2,368	1,245 1,521	30,729 32,595	243 574	8,050 R 8,267	65,711 R 65,979	0					39,849 40,810			
2017	112	249		2,363	1,197	31,162	600	R 8,238	R 64,481	0					40,288			
2018	117	282		2,952	1,367	30,685	358	R 8,251	R 65,992	ő					42,037			
2019	80	279	22,033	3,362	1,299	32,208	497	R 8,479	R 67,877	0					41,160			
2020	56	267	21,506	3,097	1,115	29,618	569	R 8,315	R 64,220	0					39,484			
2021 2022	57 86	260 278	R 20,805 23.013	2,925 3,151	1,295 1,441	30,057 28.820	493 505	R 8,965 8,849	R 64,539 65,779	0					40,492 41,961			
				-,,,,,	.,				Trillion	Btu					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
1960	5.4	288.6	27.0	21.4	5.1	124.6	13.6	58.7	250.3	0.0	3.9	NA	NA	NA	23.9	572.1	R 48.3	R 620.4
1970	2.4	407.0	43.0	30.4	8.6	151.5	4.7	61.3	299.5	0.0	3.7			NA NA	47.3		R 96.9	R 856.7
1980	7.2	385.0	83.8	30.4	13.8	155.4	6.3	77.6	367.3	0.0	9.0		NA	NA	74.5	843.1	R 158.5	R 1.001.6
1990	3.8	325.5	96.5	54.3	20.7	150.4	1.3	75.0	398.2	0.0	11.8			(s)	92.6		R 240.4	R 1,074.3
2000	3.5	281.0	84.8	60.8	18.3	165.9	2.5	52.2	384.7	0.0	7.6			(s)	122.6	801.3	R 314.8	R 1,116.0 R 1,064.3
2005 2006	5.0 5.7	244.5 246.5	104.8 109.4	10.6 7.2	10.0 9.9	146.2 163.9	2.1 3.9	59.2 59.3	332.9 353.6	0.0	7.6 4.7			(s) (s)	133.2 135.6		R 332.8 R 332.2	R 1,089.4
2007	5.8	265.6	111.6	60.8	8.7	164.4	2.9	56.1	404.6	0.0	5.1		0.6	(s)	137.0	832.7	R 318.3	R 1,151.0
2008	4.0	265.4	115.7	13.8	9.8	159.3	7.7	50.5	356.8	0.0	5.6	24.7	0.7	(s)	136.4	794.3	R 314.8	R 1,109.1
2009	2.5	259.9	112.0	13.3	13.9	161.7	2.8	50.5	354.2	0.0	5.7			(s)	130.5	776.2	R 296.1	R 1,072.3
2010	2.7	252.0	110.0	12.4	10.8	161.0	2.3	59.2	355.7	0.0	6.3			(s)	137.9	780.3	R 310.0	R 1,090.3
2011 2012	2.5 2.0	254.3 234.9	106.9 107.6	12.0 9.6	9.8 10.8	155.3 155.5	1.7 1.6	52.2 53.7	337.9 338.7	0.0	8.1 6.9		1.0 1.0	(s) (s)	139.1 137.5	767.6 742.8	R 306.9 R 294.2	R 1,074.5 R 1,037.0
2012	2.0	264.6	124.5	11.2	6.4	156.2	1.0	50.7	350.1	0.0	7.6			R (s)	136.0	782.7	R 263.0	R 1,045.7
2014	2.9	272.7	139.2	12.1	9.6	158.7	1.1	48.0	368.6	0.0	7.7			R (s)	138.4	817.5	R 258.7	R 1,076.2
2015	2.8	265.2		11.8	7.1	155.4	1.5	49.4	354.1	0.0	R 6.5			R (s)	136.0		R 249.9	R 1,041.3
2016	2.3	255.3	118.9	9.1	8.6	164.8	3.6	52.0	357.0	0.0	5.7		1.0	0.1	139.2	787.0	R 231.1	R 1,018.1
2017	2.4	257.8	120.4 128.9	9.1	6.8	157.5	3.8	R 51.6 R 51.8	R 349.1 R 357.1	0.0	R 5.6		1.0	R 0.1 R 0.1	137.5	780.6 R 831.9	R 205.3 R 212.4	R 985.9 R 1,044.3
2018 2019	2.5 1.8	292.6 291.2	128.9 126.9	11.3 12.9	7.8 7.4	155.1 162.7	2.2 3.1	R 53.0	R 366.0	0.0	7.3 7.0			R 0.2	143.4 140.4	R 836.2	R 195.3	R 1,031.5
2020	1.2	R 276.4	123.8	11.9	6.3	149.6	3.6	R 52.0	R 347.2	0.0	R 5.5			R 0.2	134.7	R 794.4	R 176.6	R 971.0
2021	1.2	R 268.7	R 119.9	11.2	7.3	151.8	3.1	R 56.1	R 349.5	0.0	R 5.1	28.0	1.0	R 0.2	138.2		R 176.3	R 968.3
2022	1.8	287.5	132.7	12.1	8.2	145.5	3.2	55.4	357.0	0.0	6.0	30.2	1.0	0.3	143.2	826.4	174.9	1,001.3

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Kansas

				Petro	oleum		Biomass						
	Coal a	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	37	73	53	3,609	303	3,966				2,360			
1965	10	87	53 50 53 96	4,179	1.285	5,515				3.251			
1970 1975	6 0	97 98	53	5,052 4,778	116	5,221 4,934				5,348 5,695			
1975	1	96 85	150	4,776 2,181	60 5 27	4,934 2,335				7,189			
1980 1985	(s)	85 78	150 68	1,538	27	2,335 1,633				8,195			
1990	(s) 5	71	28 14	1,238	11	1,277				9,515			
1995 2000	5	76 71	14 17	1,538 2,720	13 20	1,565 2,757				10,356 12,528			
2005	0	65	4	2,720	10	2,757				13,406			
2005 2006	(s) 0	65 57	3	1,630	10 5	1,638				13,503			
2007		63 70	2	2,117	2	2,121				13,806			
2008 2009	0	70 71	4	2,744 2,594	1 3	2,749 2,601				13,502 13,149			 
2010	0	67	3	2,327	2	2,332				14.334			
2011	Ö	65	7	2.147	1	2,156				14,334 14,344			
2012	0	50 68	8	1,740 2,023	(s) (s)	1,748				13.797			
2013 2014	0	68 71	3	2,023	(s)	2,026				13,593 13,685			
2014	0	7 I 58	4	2,255 2,127	(s)	2,257 2,131				13,242			
2016	Ö	54	1	1,668	9	1,679				13,509			
2017	0	58 54 54 67	3	1,592	(s)	1,596				13,013			
2018 2019	0	67	2	2,192	1	2,194				14,187			
2019	0	68 62	3	2,441 2,228	(s)	2,444 2,231				13,631 13,592			
2021	Ö	60	3	2,008	(s) 2	2,013				13,769			
2022	0	65	3	2,285	2	2,290				14,444			
							Trillion Btu						
1960	0.8	76.1	0.3	13.9	1.7	15.9	3.1	NA	NA	8.1	104.0	R 16.2	R 120.2
1965 1970	0.2	86.4	0.3	16.1	7.3 0.7	23.6 20.4	2.0	NA	NA	11.1	123.3 137.5	R 21.8 R 37.4	R 145.2 R 174.8 R 176.8
1970	0.1	97.1	0.3	19.4	0.7	20.4	1.6	NA	NA	18.2	137.5	R 37.4 R 39.7	H 174.8
1975 1980	0.0 (s)	96.6 84.8	0.6 0.9	18.4 8.4	0.3	19.3 9.3	1.9 8.8	NA NA	NA NA	19.4 24.5	137.1 127.4	R 52 2	11/6.8 R 170.6
1985	(s)	78.3	0.4	5.9	(s) 0.2	6.5	11.2	NA NA	NA	28.0	124.0	R 52.2 R 56.8	R 179.6 R 180.8
1990 1995	(s) 0.1	71.3	0.2	4.8 5.9	0.1	5.0	6.3 5.6	(s) (s)	(s) (s)	32.5 35.3	115.1 123.2	84.3	199.4 213.5 R 238.8
1995		76.1	0.1	5.9	0.1	6.1	5.6	(s)		35.3	123.2	90.3	213.5
2000 2005	(s) 0.0	71.1 65.9	0.1	10.4 8.6	0.1 0.1	10.7 8.7	4.4 4.0	(s) 0.1	(s)	42.7 45.7	129.1 124.3	109.8 R 114.3	11 238.8 R 238.7
2006	(s)	58.2	(s) (s) (s)	6.3	(s)	6.3	3.5	0.1	(s)	46.1	114.2	R 114.3 R 112.8 R 109.4	R 238.7 R 227.0 R 232.9 R 240.3
2007	(s) 0.0	64.2	(s)	8.1	(s)	8.2	3.9	0.1	(s)	47.1	123.5	R 109.4	R 232.9
2008	0.0	72.9	(S)	10.5	(s)	10.6	4.4	0.1	(s)	46.1	134.0	H 106 3	H 240.3
2009 2010	0.0 0.0	72.5 68.4	(s) (s)	10.0 8.9	(s) (s)	10.0 9.0	4.5 4.8	0.1 0.2	(s) (s)	44.9 48.9	132.0 131.3	R 101.8	R 233.8
2010	0.0	66.8	(S)	8.2	(s)	8.3	4.7	0.6	(s)	48.9	129.4	R 109.9 R 108.0 R 100.7 R 89.7	R 241.2 R 237.4 R 210.4 R 218.6
2012	0.0	51.6	(s) (s) (s)	6.7	(s)	6.7	3.9	0.3	(s)	47.1	109.7	R_100.7	R 210.4
2013	0.0	69.3	(s)	7.8	(s)	7.8	5.1	0.3	(s)	46.4	128.9	R 89.7	R 218.6
2014 2015	0.0 0.0	72.8 60.4	(s) (s)	8.7 8.2	(s) (s)	8.7 8.2	5.2 R 3.9	0.3 0.3	R (S)	46.7 45.2	133.7 118.0	n 87 3	n 221 ()
2015	0.0	55.9	(S)	8.2 6.4	(S) 0.1	8.2 6.5	3.3	0.3	R (s)	45.2 46.1	112.1	R 83.0 R 76.5	R 201.0 R 188.6
2017	0.0	56.3	(s) (s)	6.1	(s)	6.1	3.3 2.9 4.2	0.3	0.1	44.4	110.2	H 66.3	R 176.5 R 202.8
2018	0.0	69.7	(s)	8.4	(s)	8.4	4.2	0.3	R 0.1	48.4	R 131.1	H 71.7	R 202.8
2019	0.0	71.1	(s)	9.4	(s)	9.4	41	0.3	R 0.1	46.5	R 131.5	R 64.7	n 196 2
2020 2021	0.0 0.0	64.5 62.3	(S)	8.6 7.7	(s) (s)	8.6 7.7	R 2.7 R 2.1	0.3 0.3	R 0 2	46.4 47.0	R 122.5 R 119.6	R 60.8 R 60.0	R 183.3 R 179.6
2022	0.0	67.6	(s) (s) (s)	8.8	(s)	8.8	3.1	0.3	R 0.1 R 0.2 0.2	49.3	129.1	60.2	189.3
			,-/		,								

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Kansas

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	25 7	41	115	446	87	179	47	874	NA			NA	1,727			
1965	7	38 53	109	517	367	204	19	1,215	NA			NA	2,597			
1970 1975	0	53 52	115 209	624 591	33 17	215 268	34 36	1,022 1,121	NA NA			NA NA	3,967 5,614			
1980	4	52 59 57	360	270	10	279	0	1,121 918	NA			NA	6,806			
1985 1990	(s)	57 56	725 329	190 153	10 6	177 162	0 27	1,102 677	NA 0			NA 0	8,174 9,547			
1995	(s) 33	56 53	329 562	190	6	74	12	844	ŏ			Ö	10,645			
2000 2005	10 0	40	571 244	336	5 14	85 74	3	1,001	0			0	13,171 14,453			
2006	(s) 0	30 28	290	294 138	9	131	ő	627 567	0	==		0	14,786			
2007		31	267	267	4 2	74 62	0	611	0			0	15,474			
2008 2009	0	34 33	301 309	462 401	2	62 75		826 787	0			0	15,496 15,007			
2010	Ö	32	245	484	2	76	(s) (s)	807	Ŏ			(s)	15,436			
2011 2012	0	32 32 25	279 374	315 217	1	54 96	(s) 0	649 687	0			(s)	15,609 15,456			
2013	ő	33 36	328	292	i	35 70	ő	656	ő			2	15,245			
2014	0	36	331	444	1		0	846	0			2	15,383			
2015 2016	0	37 35	405 448	393 308	(s) (s)	637 617	0	1,436 1,373	0			2	15,380 15,887			
2017	Ŏ	35 35	517	309	(s)	599	ŏ	1,425	Ŏ			5	15,739			
2018 2019	0	40 41	378 323	225 346	(s)	594 599	0	1,198 1,268	0			10 15	16,169 15,916			
2020	0	40	399	435	i	603	0	1,438	0			19	14,843			
2021	0	41	337 354	408	(s) (s)	609 625	0	1,355 1,388	0			22 27	15,356			
2022	0	46	334	409	(8)	020	0		lion Btu			21	15,781			
1000		40.0		4 =	2.5									50.0	Para	P.o. 4
1960 1965	0.6 0.2	42.6 38.3	0.7 0.6	1.7 2.0	0.5 2.1	0.9 1.1	0.3 0.1	4.1 5.9	NA NA	0.1 (s)	NA NA	NA NA	5.9 8.9	53.2 53.2	R 11.9 R 17.4	R 65.1 R 70.7
1965 1970	0.1	38.3 52.5	0.7	2.4	0.2	1.1	0.2	4.6	NA	(s)	NA	NA	13.5	70.8	R 27.7 R 39.1	Hags
1975 1980	0.0 0.1	50.8 58.5	1.2 2.1	2.3 1.0	0.1 0.1	1.4 1.5	0.2 0.0	5.2 4.7	NA NA	(s) 0.2	NA NA	NA NA	19.2 23.2	75.2 86.7	н 39.1 R 49.4	R 114.3 R 136.1
1985	(s)	56.5	4.2	0.7	0.1	0.9	0.0	5.9	NA NA	0.3	NA NA	NA NA	27.9	90.6	R 56.7	R 147.3
1990	(s) 0.8	56.0	1.9	0.6	(s)	0.9	0.2	3.6	0.0	0.7	(s) 0.1	0.0	32.6	92.9	84.6	177.4
1995 2000	0.8	53.3 40.6	3.3 3.3	0.7 1.3	(s) (s)	0.4 0.4	0.1 (s)	4.5 5.1	0.0 0.0	0.8 0.7	0.1 0.2	0.0 0.0	36.3 44.9	95.8 91.8	92.8 115.4	188.6 207.3
2005	0.0	30.0	1.4	1.1	0.1	0.4	(s) 0.0	3.0	0.0	0.6	0.5	0.0	49.3	83.5	R 123.2 R 123.6	R 206.7
2006 2007	(s) 0.0	28.0 31.1	1.7	0.5 1.0	(s) (s)	0.7	0.0 0.0	2.9 3.0	0.0 0.0	0.6 0.6	0.5 0.5	0.0 0.0	50.5 52.8	82.5 88.0	H 123.6	R 206.1 R 210.7
2007	0.0	34.7	1.5 1.7	1.8	(S)	0.4 0.3	0.0	3.8	0.0	0.6	0.6	0.0	52.8 52.9	92.7	R 122.6 R 122.0 R 116.2	H 214 7
2009	0.0	33.2	1.8	1.5	(s)	0.4	(s)	3.7	0.0	0.6	0.7	0.0	51.2	89.4	R 116.2	H 205.6
2010 2011	0.0 0.0	32.4 32.8	1.4 1.6	1.9 1.2	(s) (s)	0.4 0.3	(s)	3.7 3.1	0.0 0.0	0.6 0.6	0.8 0.4	(s) (s)	52.7 53.3	90.1 90.2	R 118.4 R 117.5	R 208.5 R 207.7
2012	0.0	26.0	2.2	0.8	(s)	0.5	(s) 0.0	3.5	0.0	0.5	0.7	(s)	52.7	83.4	R 112 8	R 196.3
2013	0.0 0.0	33.8	1.9	1.1	(s)	0.2	0.0	3.2	0.0	0.6	0.7	(s)	52.0	90.3	R 100.6	rt 190 9
2014 2015	0.0 0.0	37.0 38.3	1.9 2.3	1.7 1.5	(s) (s)	0.4 3.2	0.0 0.0	4.0 7.1	0.0 0.0	0.6 0.6	0.7 0.7	(s) (s)	52.5 52.5	94.8 99.1	R 98.1 R 96.5	R 192.9 R 195.6
2016	0.0	35.9	2.6	1.2	(s)	3.1	0.0	6.9	0.0	0.6	0.7	(c)	54.2	98.3	R 90.0 R 80.2	H 188 3
2017 2018	0.0 0.0	35.8 41.8	3.0 2.2	1.2 0.9	(s) (s)	3.0 3.0	0.0 0.0	7.2 6.0	0.0 0.0	0.5 0.6	0.7 0.7	R (s) R (s)	53.7 55.2	R 98.0 R 104.4	<sup>R</sup> 80.2 <sup>R</sup> 81.7	R 178.2 R 186.1
2018	0.0	41.8	1.9	1.3	(S) (S)	3.0	0.0	6.0 6.2	0.0	0.6	0.7	0.1	55.2 54.3	H 105 0	R 75.5	H 180 5
2020	0.0	41.2	2.3	1.7	(s)	3.0	0.0	7.0	0.0	0.6	0.7	R 0.1	50.6	R 100.3	R 66.4	H 166.7
2021 2022	0.0 0.0	42.5 47.5	1.9 2.0	1.6 1.6	(s) (s)	3.1 3.2	0.0 0.0	6.6 6.8	0.0 0.0	0.5 0.6	0.7 0.7	R 0.1 0.1	52.4 53.8	R 102.7 109.4	R 66.9 65.8	R 169.6 175.2
	0.0	47.0	2.0	1.0	(0)	0.2	0.0	0.0	0.0	0.0	0.7	V.1	00.0	.00.4	00.0	.70.2

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Kansas

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	175 148	121 155	1,405 1,553	1,321 1,530	4,557 3,535	1,924 755	8,535	17,742	0				NA	2,932			
1965 1970	148 103	155 184	1,553 2,515	1,530 1,985	3,535 2,777	755 701	9,711 9,170	17,084 17,149	0				NA NA	3,902 4,548			
1970	134	152	3,532	3,125	2,777	2.178	10,702	21,943	0				NA NA				
1980	331	191	3,476	5.844	1,198	1,004	11 857	23.379	Ö				NA	7,845			
1985 1990	363 157	161 158	4,058 4,545	22,687 14,032	1,064 765	66 181	6,855 11,399	34,729 30,922	0				NA 0	7,167 8,087		==	
1995	138	175	4,818	3,140	995	18	9,415	18,386	0				0	9,356			
2000	134	139	4,478	14,315	716	401	7,577	27,486	Ö				Ö	10,222			
2005 2006	205 237	118	4,936 5,498	153 66	1,195 1,275	333 619	8,852	15,469 16,343	0				0	11,165 11,462			
2006	237 241	132 143	5,498 4,901	15,167	1,275	464	8,885 8,424	29,977	0				0	10,885			
2008	162	143 129	5,480	375	800	1,220	7,561	15,436	ŏ				ŏ	10,967			
2009	105	125	4,616	477	814	444	7,632	13,984	0				0	10,087			
2010 2011	111 104	124 128	5,084 4,556	403 646	626 627	361 274	9,114 8.097	15,588 14,199	0				0	10,651 10,807			
2012	88 85	134 136	4,470	538	556 539	250	8,415	14,133	0				0	11,041			==
2013	85	136	4,409	598	539	176	7,922	13,644	0				0	11,009			
2014 2015	121 115	135 140	4,850 4,658	431 537	407 878	180 243	7,460 _ 7,681	13,329 _ 13,998	0				0	11,494 11,227			
2016	104	140	4,926	375	999	574	H 7 022	R 14 797	0				0	11,414			
2017	112	141	5,030	450	1,005	600 358	R 7 026	H 15 021	ő				Ö	11,535			
2018	117	145	5,388	390	1,007	358	R 7,949 R 8,176	R 15,092 R 14,937	0				0	11,681			
2019 2020	80 56	143 146	4,780 5.786	537 409	948 954	497 569	R 8,044	R 15,762	0				0	11,613 11,048			
2021	57	145	4,909	451	936	493	R 8,388	R 15,178	ő				(s)	11,366			
2022	86	151	4,962	447	995	505	8,207	15,116	0				1	11,736			
									Trillion Bt	u							
1960	4.0	125.7	8.2	5.0	23.9	12.1	52.5 60.1	101.7	0.0		NA	NA	NA	10.0	242.0	R 20.2	R 262.2
1965 1970	3.3 2.2	154.3 184.1	9.0 14.7	5.8 7.2	18.6 14.6	4.7 4.4	56.1	98.3 97.0	0.0	1.3 2.0	NA NA	NA NA	NA NA		270.5 300.9	R 26.2 R 31.8	R 296.7 R 332.7
1975	2.7	148.8	20.6	11.0	12.6	13.7	65.5	123.5	0.0	3.9	NA	NA	NA NA	21.2	300.1	H 43.3	H 343.4
1980	7.1	189.7	20.2	20.6	6.3	6.3	72.7	126.2	0.0	0.0	NA	NA	NA		349.8	n 56.9	n 406./
1985 1990	7.8 3.8	161.3 157.7	23.6 26.5	77.6 48.4	5.6 4.0	0.4 1.1	42.7 70.5	149.9 150.5	0.0 0.0		1.4 1.3	NA 0.0	NA 0.0		345.0 345.6	R 49.7 71.6	R 394.7 R 417.2
1995	3.3	176.0	28.0	10.9	5.2	0.1	59.1	103.3	0.0		1.9	0.0	0.0	31.9	320.6	81.6	402.1
2000	3.3 3.2	139.7	26.1	49.0	3.7	2.5	47.2	128.5	0.0	2.5	1.6	0.0	0.0	34.9	310.4	89.6 R 95.2	402.1 R 399.9
2005 2006	5.0 5.7	119.4 134.7	28.7 31.9	0.5 0.2	6.2 6.6	2.1 3.9	54.8 55.0	92.4 97.7	0.0 0.0		7.7 10.0	0.0 0.0	0.0 0.0	38.1 39.1	265.5 287.8	H 95.2	R 360.7
2007	5.8	145.1	28.3	51.4	5.2	2.9	52.0	140.0	0.0	0.6	13.1	0.0	0.0		341.7	R 95.8 R 86.3	R 383.5 R 428.0
2008	4.0	133.4	31.7	1.3	4.1	7.7	46.5	91.2	0.0	0.6	24.7	0.0	0.0	37.4	291.3	H 86 4	R 377.7 R 347.7 R 365.7
2009	2.5 2.7	127.3	26.7	1.6	4.1	2.8 2.3	47.1	82.3 92.9	0.0		22.6	0.0	0.0	34.4	269.7	R 78.1 R 81.7	R 347.7
2010 2011	2.7	126.4 131.0	29.4 26.3	1.5 2.5	3.2 3.2	1.7	56.6 49.8	92.9 83.4	0.0 0.0		24.8 24.7	0.0 0.0	0.0 0.0	36.3 36.9	284.0 281.3	R 81.7	R 365.7
2012	2.0	137.0	25.8	2.1	2.8	1.6	51.8	84.0	0.0		21.7	0.0	0.0		284.9	R 80 6	R 365 5
2013	2.0	138.5	25.4	2.3	2.7	1.1	48.7	80.2	0.0	1.9	21.4	0.0	0.0	37.6	281.6	H 70 7	R 354 3
2014	2.9	138.0	28.0	1.7	2.1	1.1	45.9	78.7	0.0		26.2	0.0	0.0	39.2	286.9	R 73.3 R 70.4 R 64.6	R 360.2 R 366.1
2015 2016	2.8 2.3	144.6 144.3	26.8 28.4	2.1 1.4	4.4 5.1	1.5 3.6	47.3 50.0	82.1 88.5	0.0	2.0 1.8	25.9 26.4	0.0	0.0 0.0	38.3 38.9	295.7 302.2	70.4 R 64 6	H 366 9
2017	2.4	145.4	29.0	1.7	5.1	3.8	R 49.8	R 89.3	0.0	2.1	27.1	0.0	0.0	39.4	R 305 6	R 58.8 R 59.0	R 364.4 R 372.0
2018	2.5	150.4	31.0	1.5	5.1	2.2	H 50 0	R 89.9	0.0	2.5	27.9	0.0	0.0		R 313.0	R 59.0	R 372.0
2019 2020	1.8 1.2	149.0 150.6	27.5 33.3	2.1 1.6	4.8 4.8	3.1 3.6	R 51.3	R 88.8 R 93.7	0.0 0.0	2.3	28.4 28.2	0.0	0.0 0.0		R 309.9 R 313.6	R 55.1 R 49.4	R 365.1
2021	1.2	149.9	28.3	1.7	4.7	3.1	R 50.4 R 52.9	90.7	0.0	2.5	28.0	0.0	(s)	38.8	R 311.1	R 49.5	R 363.0 R 360.6
2022	1.8	156.6	28.6	1.7	5.0	3.2	51.8	90.3	0.0		30.2	0.0	(s)		321.0	48.9	369.9

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

K Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Kansas

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	3	43 50 73	170	3,056 3,473	215	952 1,053	507	18,976 21,786	190	24,065	0			
1965 1970	(s) (s)	50 73	493 326	3,473 4,691	295 348	1,053 1,561	467 448	21,786 25,857	137 8	27,704 33,238	0			
1975	(s)	69	177	5 898	364	1,310	520 603	29.331	17	37,615	0			
1980	0	69 52	221	10,397	110	2,466	603	28,107	2	41,906	Ō			
1985 1990	0	38 41	137 136	9,856 11,665	95 142	4,424 3,701	549 618	26,968 27,700	0	42,031 43,962	0			
1995	0	35	146	12,678	56	2,414	589	28,333	0	44,217	0			
2000	ŏ	29	215	9.513	30	3,234	630	31,094	Ö	44,715	Ö			
2005	0	29	214	12,827	77	1,758	531 517	26,893	0	42,300	0			
2006 2007	0	29 29 25 25	218 165	13,056 14,127	40 41	1,752 1,543	517 534	30,198 30,885	0	45,782 47,295	0			
2008	ő	24	184	14,228	70	1,735 2,447	496 446	30,343	0	47,056	ő			
2008 2009	0	24 26	134	14,228 14,455	69	2,447	446	30,343 30,879	Ō	47,056 48,429	Ö			
2010	0	24	175	13,717 13,691	15 10	1,906	280	31,069 29,996	0	47,161 45,843	0			
2011 2012	0	23 20	153 72	13,808	8	1,730 1,900	262 246	30,067	0	45,643 46,101	0		 	
2013	ŏ	23 24	63	16.861		1.124	276 296	30.299	ŏ	48.635	ŏ			
2014	0	24	63 58 64	18,965	12 13 16	1,690	296	30,887	0	51,909	0			
2015 2016	0	21 19	64	17,304 15,277	16 18	1,245 1,521	305 B 276	29,213 30.979	0	48,146 R 48,130	0			
2017	0	20	59 56	15,370	11	1,197	R 276 R 245	29,559	0	R 46,439	0			
2018	0	30	60	16,612	144 39	1,367	R 241 R 241	29,084	0	R 46,439 R 47,508	0			
2019 2020	0	27 R 19	61	16,927	39	1,299	H 241	30,661	0	R 49,227 R 44,790	0			
2020	0	14	52 58	15,319 R 15,555	24 57	1,115 1,295	R 218 R 224	28,062 28,512	0	45,994	0			
2022	Ö	15	60	17,693	10	1,441	252	27,201	Ö	46,985	Ö			
							Tri	Ilion Btu						
1960	0.1	44.3	0.9	17.8	0.8	5.1 5.7	3.1	99.7	1.2	128.5	0.0	172.9	0.0	172.9
1965	(s) (s)	49.5	2.5	20.2	1.1	5.7	2.8 2.7 3.2	114.4	0.9	147.7	0.0	197.1	0.0	197.1
1970 1975	(S) (S)	73.2 68.0	1.6 0.9	27.3 34.4	1.3 1.4	8.6 7.2	2.7	135.8 154.1	0.1 0.1	177.5 201.2	0.0 0.0	250.7 269.1	0.0 0.0	250.7 269.1
1980	0.0	52.0	1.1	60.6	0.4	13.8	3.7	147.6	(s) 0.0	227.2 228.3	0.0	279.2	0.0	279.2
1985	0.0	38.1	0.7	57.4	0.4	24.8	3.3	141.7	0.0	228.3	0.0	268.2	0.0	268.2
1990 1995	0.0 0.0	40.6 34.7	0.7 0.7	67.9 73.8	0.5 0.2	20.7 13.7	3.3 3.7 3.6	145.5 147.4	0.0 0.0	239.2 239.4	0.0 0.0	280.3 274.2	0.0 0.0	280.3 274.2
2000	0.0	29.6	1.1	55.4	0.1	18.3	3.8	161.7	0.0	240.4	0.0	270.0	0.0	270.0
2005	0.0	29.2	1.1	74.6	0.3	10.0	3.2	139.6	0.0	228.8	0.0	258.2	0.0	258.2
2006	0.0	25.5	1.1	75.8	0.2	9.9	3.1	156.6	0.0	246.7	0.0	272.8	0.0	272.8
2007 2008	0.0 0.0	25.2 24.4	0.8 0.9	81.7 82.2	0.2 0.3	8.7 9.8	3.2 3.0	158.8 154.9	0.0 0.0	253.5 251.2	0.0 0.0	279.5 276.3	0.0 0.0	279.5 276.3
2009	0.0	27.0	0.7	83.5	0.3	13.9	2.7	157.2	0.0	258.2	0.0	285.2	0.0	285.2
2010	0.0	24.8	0.9	79.2	0.1	10.8	1.7	157.4	0.0	250.1 243.1	0.0	274.9	0.0	274.9
2011 2012	0.0 0.0	23.7 20.3	0.8 0.4	79.0 79.6	(s) (s)	9.8 10.8	1.6	151.9 152.2	0.0 0.0	243.1 244.5	0.0 0.0	266.8 264.8	0.0 0.0	266.8 264.8
2012	0.0	23.0	0.4	97.2	(S)	6.4	1.5 1.7	153.3	0.0	258.9	0.0	281.9	0.0	281.9
2014	0.0	24.8	0.3	109.3	(s) 0.1	9.6	1.8	156.3	0.0	277.3	0.0	302.1	0.0	302.1
2015	0.0	21.9	0.3	99.7		7.1	1.8	147.7	0.0	256.7	0.0	278.6	0.0	278.6
2016 2017	0.0 0.0	19.2 20.4	0.3 0.3	88.0 88.5	0.1 (s)	8.6 6.8	1.7 1.5	156.6 149.4	0.0 0.0	255.2 R 246.5	0.0 0.0	274.4 266.8	0.0 0.0	274.4 266.8
2018	0.0	30.7	0.3	95.7	0.6	7.8	1.5	147.0	0.0	252.7	0.0	283.4	0.0	283.4
2019	0.0	28.0 R 20.0	0.3	97.5	0.1	7.4	R 1.5	154.9	0.0	261.7	0.0	280.7	0.0	289.7
2020	0.0	<sup>R</sup> 20.0 <sup>R</sup> 14.1	0.3	88.2	0.1	6.3	1.3	141.8	0.0	237.9	0.0	H 258.0	0.0	H 258.0
2021 2022	0.0 0.0	114.1	0.3 0.3	89.7 102.0	0.2 (s)	7.3 8.2	R 1.4 1.5	144.0 137.3	0.0 0.0	244.4 251.1	0.0 0.0	R 258.5 266.9	0.0 0.0	R 258.5 266.9
	0.0		0.0	.02.0	(0)	J.E			- 0.0	207.1	3.0	200.0	- 0.3	200.0

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Information Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Kansas

2011   20,129   31   86   66   0   152   7,319   15     0   0   3,720   0					Petro	leum				Biomass					
Thousand barrels		Coal					Total	electric	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	net	
1870	Year				Thousan	d barrels		Million kil	owatthours	and		Million k	ilowatthours		Total <sup>f,i</sup>
1970 344 188 175 0 385 550 0 7 7 0 MA MA 0 0 1980 1150 1 10 150 1 188 0 0 20 215 0 8 0 MA MA 0 0 1980 1150 1 150 1 188 0 0 20 215 0 0 8 0 MA MA 0 0 1980 1150 1 150 1 188 0 0 20 215 0 0 8 0 MA MA 0 0 1980 1150 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1960	435	82	110	0	241	351	0	20		0	NA	NA	0	
1975	1965	478	113	71	0	156	226						NA	0	
1980   10,034   10,11   382   0   492   875   0   8	1975	2,983	128	1,539	4	4,134	5.676	0	•		-	NA	NA	0	
1596	1980	10,034	101	382	0	492	875							0	
1985 163-45 28 150 0 1 151 10.002 11 0 0 0 (a) 0 2006 20.064 34 269 0 0 5.32 187 0 1 10 0 0 0 450 0 0 2006 20.074 22 122 0 0 1.72 1127 0 10 0 0 0 450 0 0 2006 20.074 22 122 0 0 1.72 1127 0 10 0 0 0 450 0 0 2007 22.780 28 84 28 88 276 0 4 40 0 10 0 0 0 1515 (b) 0 2007 22.780 28 84 28 88 276 0 4 40 0 10 0 0 0 1515 (b) 0 2007 22.780 28 88 28 28 88 276 0 4 40 0 10 0 0 0 1515 (b) 0 2007 22.780 28 28 88 199 0 28 89 199 0 28 89 130 0 0 0 2.883 (b) 0 2010 20.865 28 88 199 0 28 89 199 0 28 89 130 0 0 0 3.735 (b) 0 2011 20.128 31 88 8 8 6 6 0 0 158 7.318 15 0 0 0 3.735 (b) 0 2011 20.128 31 88 8 8 6 6 0 0 158 7.318 15 0 0 0 3.735 (b) 0 2011 20.129 31 8 8 8 8 6 6 0 0 158 7.318 15 0 0 0 3.735 (b) 0 2011 3.815 22 100 0 0 0 10 10 7.188 15 0 0 0 3.735 (b) 0 2011 18.915 22 10 0 0 0 110 7.188 15 0 0 0 3.735 (b) 0 2011 18.915 22 10 0 0 0 110 7.188 15 0 0 0 3.735 (b) 0 2011 18.915 22 10 0 0 0 110 7.188 15 0 0 0 0 3.735 (b) 0 2011 18.915 22 10 0 0 0 110 7.188 15 0 0 0 0 1.735 (b) 0 0 2011 18.915 22 10 0 0 0 110 7.188 15 0 0 0 0 1.741 11 0 0 0 2011 18.915 22 1 0 0 0 0 121 10.648 25 0 0 5 18.853 (b) 0 2012 13.457 23 35 35 0 0 0 228 8.28 3 3 3 0 0 5 18.853 (b) 0 2012 13.457 24 24 177 0 0 0 177 10.542 25 0 5 18.853 (b) 0 2012 13.458 24 177 0 0 0 177 10.542 25 24 0 74 29.658 0 2012 13.653 31 22 8 0 0 0 228 8 28 24 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1985	14,351	27	130	0		152	3,856 7,874			-	•		0	
2008 20,74 22 122 0 0 122 9,350 10 0 0 952 0 2008 22,768 28 6 94 558 0 4,759 11 0 0 0 1,158 0 2009 20,783 32 86 28 98 199 0 296 9,556 13 0 0 0 3,750 0 0 2010 20,985 28 98 199 0 296 9,556 13 0 0 0 3,750 0 0 2011 20,129 31 89 66 0 153 7,318 15 0 0 0 3,750 0 0 2011 20,129 31 89 66 0 153 7,318 15 0 0 0 3,750 0 0 2011 20,129 11 1555 22 109 0 0 0 109 7,168 15 0 0 0 3,750 0 0 2011 15,55 15 110 0 0 0 116 8,558 16 0 0 10,445 0 0 2011 15,55 15 110 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 15 110 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 22 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 22 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 22 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 1 11 1 0 0 0 1 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 1 11 1 0 0 0 1 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 2 1 11 1 0 0 0 1 116 8,558 15 0 0 5 1 11,054 0 0 2011 15,55 2 2 2 1 11 1 0 0 0 1 11 1 10,548 29 0 5 1 11,551 0 1 10,541 0 0 0 1 11 1 10,541 0 0 0 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1	1995	16,345	28	150	ŏ	1	151	10.062	11			ŏ	(s)	ŏ	
2008 20,74 22 122 0 0 122 9,350 10 0 0 952 0 2008 22,768 28 6 94 558 0 4,759 11 0 0 0 1,158 0 2009 20,783 32 86 28 98 199 0 296 9,556 13 0 0 0 3,750 0 0 2010 20,985 28 98 199 0 296 9,556 13 0 0 0 3,750 0 0 2011 20,129 31 89 66 0 153 7,318 15 0 0 0 3,750 0 0 2011 20,129 31 89 66 0 153 7,318 15 0 0 0 3,750 0 0 2011 20,129 11 1555 22 109 0 0 0 109 7,168 15 0 0 0 3,750 0 0 2011 15,55 15 110 0 0 0 116 8,558 16 0 0 10,445 0 0 2011 15,55 15 110 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 15 110 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 22 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 22 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 22 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 10 10 0 0 0 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 1 11 1 0 0 0 1 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 1 11 1 0 0 0 1 116 8,558 15 0 0 0 1,045 0 0 2011 15,55 2 2 2 1 11 1 0 0 0 1 116 8,558 15 0 0 5 1 11,054 0 0 2011 15,55 2 2 2 1 11 1 0 0 0 1 11 1 10,548 29 0 5 1 11,551 0 1 10,541 0 0 0 1 11 1 10,541 0 0 0 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1	2000		34	269 135	0	533		9,061			0	0		0	
2008	2005	20.874	22	122	0		1,657	9.350			0	0	992	(5)	
2009 20783 32 86 268 0 353 8.769 13 0 0 2.863 (s) 2010 20,955 28 98 199 0 296 9.556 115 0 0 0 3.445 0 0 2011 17,759 33 78 66 0 0 18 78 78 78 78 78 78 78 78 78 78 78 78 78	2007	22,780	26	94	376	0	470	10,369			•	0	1,153	(s)	
2011 20,129 31 86 66 0 152 7,319 15 0 0 3,720 0 2012 17,759 33 78 0 0 0 78 8,285 10 0 0 5,185 0 0 2013 18,185 12 10 10 0 0 10 10 10 10 10 10 10 10 10 10		21,616	2/	91 86	258	0	349 353					0	1,/59	(c)	
2011	2010	20.965	28	98	199		296	9,556	13			0	3.405	0	
2013 18,915 23 109 0 0 109 7,168 15 0 0 9,433 0 2014 18,1919 18 18 116 0 0 0 110 8,558 16 0 0 0 1,0845 0 0 2016 14,587 20 166 0 0 0 160 8,246 31 0 2 14,111 0 2017 12,542 21 121 0 0 0 121 10,648 29 0 5 115,583 (s) 2018 13,176 28 118 0 0 0 118 9,168 26 0 8 15,583 (s) 2019 11,553 22 118 0 0 0 118 9,168 26 0 8 15,582 0 2019 11,553 22 177 0 0 0 177 9,248 20 0 81 18,892 0 2021 12,595 23 177 0 0 0 26 8,982 24 0 61 22,675 0 2021 12,596 23 177 0 0 0 26 8,982 24 0 74 29,658 0 2022 13,053 31 226 0 0 26 8,982 24 0 74 29,658 0 2036 11,6 11,6 11,6 11,6 11,6 11,6 11,6 11	2011	20,129	31	86			152	7,319				0		0	
2016		17,759 18,915	33 23	/8 109	0		78 109	8,285 7 168			•	0	5,195 9.433	0	
2016	2014	18,199	18	116	ŏ	ŏ	116	8,558	16		ŏ	ŏ	10,845	ŏ	
2018   13,176   28   118   0   0   118   9,168   26     0   8   16,892   0	2015	15,851	15	110	0	•	110	8,630			0	2	10,999	0	
2018   13,176   28   118   0   0   118   9,168   26     0   8   16,892   0	2016 2017	14,587 12,542	20 21	121	0	•	121	8,246 10,648	31 29		0	5	14,111 18 583	(s)	
2020	2018	13,176	28	118	ő		118	9.168	26		•	8	18,892	0	
12,595   23   363   0   0   363   8,575   30     0   61   25,675   0	2019	11,535	28	175	0	•	175		20		•			0	
13,053   31   226   0   0   226   8,982   24     0   74   29,658   0	2020	12,595	23	363	0	•	363	8.575	32 30		•		25,946 25.675	0	
1960   10.3	2022	13,053	31	226	Ö	Ö	226	8,982	24		Ö	74	29,658	Ō	
1965															
1970 8.3 167.5 1.0 0.0 2.4 3.4 0.0 H(s) 0.0 0.0 NA NA 0.0 H179.3 1975 59.5 126.7 9.0 (s) 26.0 35.0 0.0 (s) 0.0 0.0 NA NA NA 0.0 221.2 1980 184.3 97.0 2.2 0.0 3.1 5.3 0.0 R(s) 0.0 0.0 NA NA NA 0.0 286.7 1985 251.7 20.5 1.1 0.0 0.1 1.3 41.0 R(s) 0.0 0.0 0.0 NA NA NA 0.0 286.7 1980 267.9 27.1 0.8 0.0 1.1 0.9 83.3 R(s) 0.0 0.0 0.0 (s) 0.0 (s) 0.0 R314.4 1990 257.9 (27.6 0.9 0.0 0.1 0.9 83.3 R(s) 0.0 0.0 0.0 0.0 (s) 0.0 R379.3 1995 285.5 27.6 0.9 0.0 (s) 0.9 105.7 R(s) 0.0 0.0 0.0 (s) 0.0 R379.3 1995 285.5 27.6 0.9 0.0 0.0 (s) 0.9 105.7 R(s) 0.0 0.0 0.0 0.0 (s) 0.0 R379.3 1995 285.5 22.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 R39.3 1995 22.8 14.2 0.8 0.0 0.0 1.8 11.6 92.1 R(s) 0.0 0.0 0.0 0.0 0.0 0.0 R379.3 1995 22.8 14.2 0.8 0.0 0.0 1.8 11.6 92.1 R(s) 0.0 0.0 0.0 0.0 0.0 R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.2 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.7 97.6 R(s) 0.0 0.0 0.0 0.0 R34.3 (s) R34.2 0.0 0.0 0.0 0.0 R35.3 (s) R34.2 0.0 0.0 0.0 R35.3 (s) R34.2 0.0 0.0 0.0 0.0 R35.3 (s) R34.2 0.0 0.0 R35.3 (	1960	10.3	85.1	0.6		1.5		0.0	H 0.1	0.0		NA		0.0	H 97.6
1975	1900	8.3	167.5	1.0	0.0	2.4		0.0	R (s)					0.0	R 179 3
1995 285.5 27.6 0.9 0.0 (s) 0.9 105.7 1(s) 0.0 0.0 0.0 0.0 (s) 0.0 1419.7 2000 359.3 33.9 1.6 0.0 3.4 4.9 94.5 1(s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2005 374.8 14.2 0.8 0.0 10.8 11.6 92.1 1(s) 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.0 0.7 97.6 1(s) 0.0 0.0 0.0 0.0 1.8 1.5 (s) 1.4 2007 390.6 26.1 0.5 2.2 0.0 2.7 108.8 1(s) 0.0 0.0 0.0 0.0 1.8 3.9 (s) 1.4 2008 367.8 27.1 0.5 1.5 0.0 2.0 88.8 1(s) 0.0 0.0 0.0 0.0 1.3 3.9 (s) 1.5 2009 353.6 32.5 0.5 1.5 0.0 2.0 91.7 1(s) 0.0 0.0 0.0 0.0 1.8 3.9 (s) 1.4 2010 357.3 28.4 0.6 1.1 0.0 1.7 99.9 1(s) 0.6 0.0 0.0 0.0 11.6 0.0 11.6 0.0 11.1 0.0 11.7 99.9 1(s) 0.6 0.0 0.0 11.6 0.0 11.1 0.0 11.7 11.1 0.1 0.1 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1975	59.5	126.7	9.0	(s)	26.0	35.0	0.0		0.0	0.0	NA	NA	0.0	221.2
1995 285.5 27.6 0.9 0.0 (s) 0.9 105.7 1(s) 0.0 0.0 0.0 0.0 (s) 0.0 1419.7 2000 359.3 33.9 1.6 0.0 3.4 4.9 94.5 1(s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2005 374.8 14.2 0.8 0.0 10.8 11.6 92.1 1(s) 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.0 0.7 97.6 1(s) 0.0 0.0 0.0 0.0 1.8 1.5 (s) 1.4 2007 390.6 26.1 0.5 2.2 0.0 2.7 108.8 1(s) 0.0 0.0 0.0 0.0 1.8 3.9 (s) 1.4 2008 367.8 27.1 0.5 1.5 0.0 2.0 88.8 1(s) 0.0 0.0 0.0 0.0 1.3 3.9 (s) 1.5 2009 353.6 32.5 0.5 1.5 0.0 2.0 91.7 1(s) 0.0 0.0 0.0 0.0 1.8 3.9 (s) 1.4 2010 357.3 28.4 0.6 1.1 0.0 1.7 99.9 1(s) 0.6 0.0 0.0 0.0 11.6 0.0 11.6 0.0 11.1 0.0 11.7 99.9 1(s) 0.6 0.0 0.0 11.6 0.0 11.1 0.0 11.7 11.1 0.1 0.1 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1980	184.3	97.0	2.2	0.0	3.1	5.3	0.0	H (s)	0.0	0.0	NA 0.0		0.0	286.7 R 214 4
1995 285.5 27.6 0.9 0.0 (s) 0.9 105.7 1(s) 0.0 0.0 0.0 0.0 (s) 0.0 1419.7 2000 359.3 33.9 1.6 0.0 3.4 4.9 94.5 1(s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2005 374.8 14.2 0.8 0.0 10.8 11.6 92.1 1(s) 0.0 0.0 0.0 0.0 0.0 0.0 1.2 2006 358.5 22.8 0.7 0.0 0.0 0.0 0.0 0.7 97.6 1(s) 0.0 0.0 0.0 0.0 1.8 1.5 (s) 1.4 2007 390.6 26.1 0.5 2.2 0.0 2.7 108.8 1(s) 0.0 0.0 0.0 0.0 1.8 3.9 (s) 1.4 2008 367.8 27.1 0.5 1.5 0.0 2.0 88.8 1(s) 0.0 0.0 0.0 0.0 1.3 3.9 (s) 1.5 2009 353.6 32.5 0.5 1.5 0.0 2.0 91.7 1(s) 0.0 0.0 0.0 0.0 1.8 3.9 (s) 1.4 2010 357.3 28.4 0.6 1.1 0.0 1.7 99.9 1(s) 0.6 0.0 0.0 0.0 11.6 0.0 11.6 0.0 11.1 0.0 11.7 99.9 1(s) 0.6 0.0 0.0 11.6 0.0 11.1 0.0 11.7 11.1 0.1 0.1 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1990	267.9	27.1	0.8			0.9		R (s)				(s)	0.0	R 379 3
2005	1995	285.5	27.6	0.9	0.0	(s)	0.9	105.7	R (s)	0.0	0.0	0.0	(s)	0.0	H 419.7
2007	2000	359.3 374.8	33.9	1.6	0.0			94.5 92.1	<sup>17</sup> 0.1 R (e)				0.0 R 1.5		RAQA2
2008	2005	358.5	22.8	0.7	0.0	0.0	0.7	97.6	R (s)	0.0	0.0	0.0	R 3.4	0.0	R 483.0
2009 353.6 32.5 0.5 1.5 0.0 2.0 91.7   f(s) 0.0 0.0 0.0   f9.8 (s)   f489.6 2   f9.5	2007	390.6	26.1	0.5	2.2	0.0	2.7	108.8	R (s)	0.0		0.0	R 3.9	(s)	R 532.1
2010 357.3 28.4 0.6 1.1 0.0 1.7 99.9 H(s) 0.6 0.0 0.0 H11.6 0.0 H499.4 2011 344.0 31.0 0.5 0.4 0.0 0.9 76.6 0.1 0.7 0.0 0.0 0.0 H12.7 0.0 R466.0 2012 305.6 33.2 0.5 0.0 0.0 0.5 86.8 R(s) 0.6 0.0 0.0 0.0 R17.7 0.0 R444.4 2013 324.8 23.7 0.6 0.0 0.0 0.0 0.6 74.9 R(s) 0.9 0.0 0.0 0.0 R32.2 0.0 R457.1 2014 313.6 18.8 0.7 0.0 0.0 0.0 0.7 89.5 R0.1 0.8 0.0 0.0 0.0 R37.0 0.0 R456.5 2015 270.7 15.3 0.6 0.0 0.0 0.0 0.0 0.6 90.3 R0.1 0.7 0.0 (s) R37.5 0.0 R466.5 2016 250.8 21.1 0.4 0.0 0.0 0.0 0.4 86.2 R0.1 0.7 0.0 (s) R37.5 0.0 R457.1 2016 250.8 21.1 0.4 0.0 0.0 0.0 0.4 86.2 R0.1 0.7 0.0 (s) R48.1 0.0 R47.6 2017 214.3 21.3 0.7 0.0 0.0 0.0 0.7 111.4 R0.1 0.7 0.0 (s) R63.4 (s) R411.9 2018 225.1 29.2 0.7 0.0 0.0 0.0 0.0 0.7 95.9 R0.1 0.8 0.0 R(s) R64.5 0.0 R416.2 2019 196.0 28.8 1.0 0.0 0.0 0.0 1.0 96.6 R0.1 0.7 0.0 R(s) R72.0 0.0 R416.2 2019 196.0 28.8 1.0 0.0 0.0 0.0 1.0 10.5 R0.1 0.8 0.0 R0.2 R817 0.0 R411.6 2000 R411.6	2008	367.8 353.6	27.1 32.5	0.5 0.5	1.5 1.5		2.0		n (s)				11 6.0 R g g	0.0 (s)	H 491.7
2016 250.8 21.1 0.4 0.0 0.0 0.4 86.2 R0.1 0.7 0.0 (s) R48.1 0.0 R407.6 2017 214.3 21.3 0.7 0.0 0.0 0.7 111.4 R0.1 0.7 0.0 (s) R63.4 (s) R411.9 2018 225.1 29.2 0.7 0.0 0.0 0.7 95.9 R0.1 0.8 0.0 R(s) R64.5 0.0 R416.2 2019 196.0 28.8 1.0 0.0 0.0 0.0 1.0 96.6 R0.1 0.7 0.0 R(s) R72.0 0.0 R395.1 2020 192.6 24.7 1.0 0.0 0.0 1.0 10.5 R0.1 0.8 0.0 R0.2 R81.7 0.0 R416.2	2010	357.3	28.4	0.6	1.1	0.0	1.7	99.9	n (s)	0.6	0.0	0.0	R 11 6	0.0	H // QQ //
2016 250.8 21.1 0.4 0.0 0.0 0.4 86.2 R0.1 0.7 0.0 (s) R48.1 0.0 R407.6 2017 214.3 21.3 0.7 0.0 0.0 0.7 111.4 R0.1 0.7 0.0 (s) R63.4 (s) R411.9 2018 225.1 29.2 0.7 0.0 0.0 0.7 95.9 R0.1 0.8 0.0 R(s) R64.5 0.0 R416.2 2019 196.0 28.8 1.0 0.0 0.0 0.0 1.0 96.6 R0.1 0.7 0.0 R(s) R72.0 0.0 R395.1 2020 192.6 24.7 1.0 0.0 0.0 1.0 10.5 R0.1 0.8 0.0 R0.2 R81.7 0.0 R416.2			31.0	0.5					0.1 B (a)				H 12.7	0.0	H 466.0
2016 250.8 21.1 0.4 0.0 0.0 0.4 86.2 R0.1 0.7 0.0 (s) R48.1 0.0 R407.6 2017 214.3 21.3 0.7 0.0 0.0 0.0 0.7 111.4 R0.1 0.7 0.0 (s) R63.4 (s) R411.9 2018 225.1 29.2 0.7 0.0 0.0 0.7 95.9 R0.1 0.8 0.0 R(s) R64.5 0.0 R416.2 2019 196.0 28.8 1.0 0.0 0.0 0.0 1.0 96.6 R0.1 0.7 0.0 R(s) R72.0 0.0 R395.1 2020 192.6 24.7 1.0 0.0 0.0 1.0 110.5 R0.1 0.8 0.0 R0.2 R81.7 0.0 R416.2	2012	324.8	23.7	0.5 0.6	0.0	0.0	0.5 0.6	86.8 74.9	R (S)	0.6		0.0	H 32 2	0.0	R 457.1
2016 270.7 15.3 0.6 0.0 0.0 0.6 90.3 10.1 0.7 0.0 (s) 137.5 0.0 1415.1 2016 250.8 21.1 0.4 0.0 0.0 0.0 0.4 86.2 80.1 0.7 0.0 (s) 848.1 0.0 8407.6 2017 214.3 21.3 0.7 0.0 0.0 0.7 111.4 80.1 0.7 0.0 (s) 863.4 (s) 8411.9 2018 225.1 29.2 0.7 0.0 0.0 0.7 95.9 80.1 0.8 0.0 8(s) 864.5 0.0 8416.2 2019 196.0 28.8 1.0 0.0 0.0 1.0 96.6 80.1 0.7 0.0 8(s) 872.0 0.0 8395.1 2020 192.6 24.7 1.0 0.0 0.0 1.0 10.5 80.1 0.8 0.0 80.0 80.0 81.7 0.0 8416.2	2014	313.6	18.8	0.7	0.0	0.0	0.7	89.5	R Ó Í	0.8	0.0	0.0	R 37.0	0.0	R 460.5
2018 225.1 29.2 0.7 0.0 0.0 0.7 95.9 $^{\rm H}$ 0.1 0.8 0.0 $^{\rm H}$ (s) $^{\rm H}$ 64.5 0.0 $^{\rm H}$ 416.2 2019 196.0 28.8 1.0 0.0 0.0 1.0 96.6 $^{\rm H}$ 0.1 0.7 0.0 $^{\rm H}$ (s) $^{\rm H}$ 72.0 0.0 $^{\rm H}$ 395.1 2020 192.6 24.7 1.0 0.0 0.0 1.0 110.5 $^{\rm H}$ 0.1 0.8 0.0 $^{\rm H}$ 0.2 $^{\rm H}$ 81.7 0.0 $^{\rm H}$ 411.6	2015	270.7	15.3	0.6					H 0.1				п 37.5 В 49.1	0.0	''4151
2018 225.1 29.2 0.7 0.0 0.0 0.7 95.9 $^{\rm H}$ 0.1 0.8 0.0 $^{\rm H}$ (s) $^{\rm H}$ 64.5 0.0 $^{\rm H}$ 416.2 2019 196.0 28.8 1.0 0.0 0.0 1.0 96.6 $^{\rm H}$ 0.1 0.7 0.0 $^{\rm H}$ (s) $^{\rm H}$ 72.0 0.0 $^{\rm H}$ 395.1 2020 192.6 24.7 1.0 0.0 0.0 1.0 110.5 $^{\rm H}$ 0.1 0.8 0.0 $^{\rm H}$ 0.2 $^{\rm H}$ 81.7 0.0 $^{\rm H}$ 411.6	2017	214.3		0.7					R 0 1				H 63.4		R 411.9
2019 196.0 28.8 1.0 0.0 0.0 1.0 96.6 0.1 0.7 0.0 %(s) \$\frac{172.0}{81.7}\$ 0.0 \$\frac{1}{981.7}\$ 0.0 \$\frac{1}{941.6}\$ 2020 192.6 24.7 1.0 0.0 0.0 1.0 110.5 \$\frac{1}{10}\$ 1.0 8.8 0.0 \$\frac{1}{0}\$ 2 \$\frac{1}{81.7}\$ 0.0 \$\frac{1}{941.6}\$ 2021 217.8 23.1 2.1 0.0 0.0 2.1 \$\frac{1}{89.4}\$ \$\frac{1}{80.1}\$ 0.7 0.0 \$\frac{1}{90.2}\$ \$\frac{1}{87.6}\$ 0.0 \$\frac{1}{842.0}\$	2018	225.1	29.2	0.7	0.0	0.0	0.7	95.9	R 0.1	0.8	0.0	R (s)	H 64 5		H 416.2
2021 217.8 23.1 2.1 0.0 0.0 2.1 R89.4 R0.1 0.7 0.0 R0.2 R87.6 0.0 R421.0	2019	196.0	28.8	1.0	0.0	0.0	1.0	96.6 110.5	T 0.1	0.7	0.0	n (s)	n 72.0 R 81 7	0.0	n 395.1 R 411 6
0000 0040 040 40 00 00 40 007 04 07 00 00 4040 00 4050	2021	217.8	23.1	2.1	0.0	0.0	2.1	R 89.4	R 0.1	0.7	0.0	R 0.2	R 87.6	0.0	R 421.0
2022 224.9 31.2 1.3 0.0 0.0 1.3 93./ 0.1 0.7 0.0 0.3 101.2 0.0 453.2	2022	224.9	31.2	1.3	0.0	0.0	1.3	93.7	0.1	0.7	0.0	0.3	101.2	0.0	453.2

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Kentucky

						Petroleum								
						relioledili				-	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthour	s	Thousan	d barrels
1960 1965	12,010 17,585	149 172	4,850 5,567	4,152 5,869	497 1 284	21,535 25,780	337 600	6,457 9,313	37,827 48.412	0	2,633 2,464	0 0	NA NA	NA NA
1965 1970	17,585 23,558	248	5,567 8,211	9,564	1,284 3,089	25,780 33,581	600 1,063	12,337	48,412 67,846 68,748 74,082	Ö	2,464 3,174	0	NA	NA
1971	24.833	244	7.785	9.864	2.674	35.715	659	12,052	68,748	0	3,536 3,770	0	NA	NA
1972 1973	26,469 25,978	255 245	9,569 10,740	11,412 12,277	2,207 2,367	37,567 39,362	1,192 1,110	12,135 13,691	74,082 79,547	0	3,770	0	NA NA	NA NA
1974 1975	27,236	228 208	10,416	11,929 10,977	2,035 2,150	39,541	2,060	12,079	78,059 78,966	Ö	3,398 3,463	Ŏ	NA	NA
1975	25,556	208	10,924	10,977	2,150	40 816	2,169	11,931	78,966	0	3,463	0	NA	NA
1976 1977	27,898 27,597	246 220	13,649 17,049	11,330 11,616	2,159 2,224	42,834 43,935	2,457 2,831	12,115 12,607	84,544 90,262	0	3,159 3,313	0	NA NA	NA NA
1978	27,652 26,737	213	19,099	12,254 10,761	2,558 2,569	44,928 42,570	2.436	12,780 15,561	94.056	Ö	3,182 3,940	Ö	NA	NA
1979	26,737	219	21,290	10,761	2,569	42,570	1,365	15,561	94,116	0	3,940	0	NA	NA
1980 1981	27,728 28,811	202 199	22,906 18,192	10,223 7 924	2,897 3,230	39,829 40,181	1,012 1,139	13,335 10,254	90,203 80,919	0	2,940 2,598	0	NA 7	NA NA
1982	27,279	199 189	17.482	7,924 7,112	3,230 3,702	40.066	1,154	10.488	80,919 80,004	Ö	3.343	Ő	45	NA
1983 1984	27,461	174	20,433 22,853	7,156 5,782	4,009 3,261	40,272 40,786	1,175	10,561 11,101	83,607	0	3,244	0	234	NA
1984 1985	28,933 31,066	189 173	22,853	5,782 5,539	3,261 3,434	40,786 39,924	782 622	11,101 10.451	84,565 82,058	0	3,514	0	736 1,046	NA NA
1985 1986	32,185	173 167	22,088 20,584	5,539 5,118	3,549	42,518	622 739 852	10,451 10,496	83,607 84,565 82,058 83,006	ő	2,941 2,734	ŏ	1,599	NA
1987	32.085	172	21.367	6.750	4.827	43 068	852	12.155	89 019	0	2.948	0	1.845	NA
1988 1989	35,263 32,889	184 189	25,148 28,907	6,719 6,329	4,985 5,071	44,133 43,428	569 469	12,722 12,567	94,276 96,772	0	2,423 4,404	0	1,597 1,167	NA NA
1990 1991	34,449	184 187	24,226	6,154 6,709	5,713 6,368	43 040	537 455	12,576	92,246	0	3,160	0	841	NA
1991	34,517	187	24,226 22,533	6,709	6,368	43,766	455	12.120	92,246 91,952	0	3,160 3,658	0	826	NA
1992 1993	34,704 39,095	190 203	25,122 27,392	6,427 5,815	6,882 5,705	44,786 45,756	417 332	13,543 12,377	97,178 97,377	0	3,767 3,155	0	969 611	NA NA
1994	38.090	208	26.186	5.673	6.343	46.180	325	12.694	97,400	0	4.014	0	258	NA
1995	39,516	224	27,325	5,607	6,305	48,104	201	12,238	97,400 99,780	0	4,014 3,423	Ō	130	NA NA
1996	40,862 41,889	236	27,693	7,207 8,757	5,590	43,543	243	13,210 13,300	97,486	0	3,497 3,380	0	134 159	NA NA
1997 1998	41,153	228 205	28,052 28,104	7 5 1 7	4,558 5,351	50,174 50,222	165 55 77 90	16.159	105,006 107,408	0	3.116	0	94	NA NA
1999 2000	42,378	218	27,466 29,641	9,278 9,959 9,928	6,962 6,651	50,950 48,912	77	17,927 15,397	112,661 110,648	Ö	2,557 2,325	Ö	88 67	NA
2000 2001	42,585 43,907	225 209	29,641 30,721	9,959	6,651 6,001	48,912 51,268	90 143	15,397 18,565	116 606	0	2,325 3,856	0	67 97	NA 7
2001	40,920	228	33,820	10,917	6,353	50,827	94	24.565	126,575	0	4,025	0	630	11
2003	40,827	223	26,713	8 830	8,046	50,827 52,702	123	24,565 23,332	126,575 119,745 131,261 131,011	Ö	3.948	Ö	1 407	9
2004 2005	41,874	225 234	30,286	9,621 9,977	9,042 8,284	55,268 53,899	64 140	26,978 27,286	131,261	0	3,780 2,961	0	1,229 2,748	18 61
2005	42,881 44,435	211	31,426 32,777	9 754	0,20 <del>4</del> 7.105	53,898	118	27,200	131,518	0	2,901	0	2,746	175
2006 2007	43,671	230	32,777 33,482	9.841	7,105 7,979	53,898 54,131	103	27,867 25,309	131,518 130,845 124,007	Ö	2,592 1,669	Ö	2,845 3,440	175 237
2008 2009	44,457 40,992	225 207	31,057	9,899	7,425 9,844	51,934 53,289	(s) 70	23,691	124,007	0	1,917 3,318	0	4,409 4,867	203 215
2009	40,992 43,870	232	29,034 29,464	8,602 R 14,809	9,844 9,880	53,289	70 56	22,524 18,511	123,362 R 125,722	0	2,580	0	4,867 4,967	174
2011	44,422	223 226	31,229 28,658	14,851 14,121	10,352 10,270	51,262 50,604	0	15,835 17,513	123,529 121,206	ŏ	2,969	ŏ	4,941	593 534
2012	40.128	226	28,658	14,121	10,270	50,604	39	17,513	121,206	0	2.362	0	5,116	534
2013 2014	40,563 40,262	230 255	28,288 28,238	9,931 10,639	10,660 10,656	50,575 50,119	31 25	14,716 15,059	114,201 114,735	0	3,275 3,144	0	5,209 5,098	839 761
2015	35.391	230 255 271	27.086	9,931 10,639 11,024	11,115	51.823	15		114,201 114,735 117,036	ő	3.403	Ö	5,001	839 761 646
2016	32,867	272	27,087 26,137	9 474	11 709	53,096 52,909	6	R 17,080 R 12,925 R 12,823 R 12,930 R 10,574 R 12,708	118,452 R 115,014	0	3,478 4,506	0	5,129	957
2017 2018	28,519 29,339	284 340	26,137 28,089	10,019 11,350	12,999 14,255	52,909 53,037	26 13	112,925 R 12,823	R 115,014 R 119,568	0	4,506 4.418	0	5,172 5,115	781 745
2019	25,862	340 344 R 329	27,055	11,350 12,192	13,614	52,928	0	R 12,930	R 118 720	0	4,418 4,232	0	5,115 5,183	745 R 572
2020	21,402	R 329	25 416	11 442	13.213	47.477	0	R 10,574	H 108 122	0	5.005	0	4,783 5,174	718
2021 2022	24,489 23,391	349 384	R 25,947 26,576	11,633 12,646	14,667 15,389	50,985 50,891	13 13	12,708 10,016	R 115,954 115,531	0	4,876 4,530	0	5,174 5,184	R 623 638
	20,031		20,070	12,040	10,000	30,031	13	10,010	110,001		7,550		5,104	

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Kentucky (trillion Btu)

				Fossil	fuels						Fossil fuels	
					Petroleum						(as commingled)	I
oal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
286.7	153.8	28.2	15.8	2.7	113.1	2.1	38.4	200.4	641.0	153.8	28.2	113.1
415.5	153.8 176.7	28.2 32.4 47.8 45.3	15.8 22.3	2.7 7.2	113.1 135.4 176.4 187.6	2.1 3.8	38.4 54.7 73.7 72.2	200.4 255.8	848.0	153.8 176.7	28.2 32.4 47.8 45.3	113.1 135.4
527.1 550.4	252.3 248.5	47.8	35.7 36.7	17.4	176.4	6.7 4.1	73.7	357.6 361.0	1,136.9 1,159.9	252.3 248.5	47.8	176.4 187.6
550.4	248.5	45.3	36.7	15.0	187.6	4.1	72.2	361.0	1,159.9	248.5	45.3	187.6
583.8 573.4 593.8	259.5 250.1 231.4	55.7 62.6 60.7	42.3 45.3 43.8	12.4 13.3	197.3 206.8 207.7	7.5 7.0 13.0	72.7 82.5 72.2	388.0	1,231.3 1,240.9 1,234.0	259.5 250.1 231.4	55.7 62.6 60.7	197.3 206.8 207.7
593.8	231.4	60.7	43.8	11.4	200.0	13.0	72.2	417.4 408.7	1,240.9	231.4	60.7	200.0
558.3	209.2	63.6	40.2	12.1	214.4	13.6	71.6	415.5 446.1 478.1 497.7 502.2	1.183.0	209.2	63.6	214.4 225.0 230.8 236.0 223.6
558.3 617.5	209.2 248.7	79.5	40.2 41.4	12.1 12.2	225.0	13.6 15.4	71.6 72.6	446.1	1,183.0 1,312.3	209.2 248.7	63.6 79.5	225.0
613.5	221.9	99.3	42.0	12.5	230.8	17.8	75.6	478.1	1,313.5	221.9	99.3	230.8
617.2 609.3	215.0 220.9	63.6 79.5 99.3 111.3 124.0 133.4 106.0 101.8 119.0	44.1 38.9 36.8 28.4	14.4 14.5	214.4 225.0 230.8 236.0 223.6 209.2 211.1 210.5 211.5 214.2 209.7 223.3 226.2 231.8 228.1 226.1 229.9	15.3 8.6	76.6 92.6	497.7	1,313.5 1,329.9 1,332.3	221.9 215.0 220.9	111.3 124.0	236.0
641.7	220.9	124.0 133 /	38.9 36.8	14.5	223.6	6.4	92.6 78.0	502.2 481.0	1,332.3	220.9	124.0 133 A	223.6 209.2
641.7 663.9	204.1 202.2	106.4	28.4	16.3 18.2	211 1	7.2	78.9 62.1 64.1 63.6	481.0 432.9	1,326.8 1,299.1	204.1 202.2	133.4 106.0	209.2 211.1 210.5 211.5
627.0	191.0	101.8	25.3	20.9	210.5	7.3	64.1	429.8	1,247.9	191.2	101.8	210.5
637.8	177.5	119.0	25.3 25.5	20.9 22.6	211.5	7.4	63.6	429.8 449.7	1,247.9 1,265.0	191.2 177.8	101.8 119.0	211.5
671.0	193.3 177.7 173.5	133.1	20.5	18.4	214.2	4.9	66.6	457.9	1,322.2	193.4	133.1	214.2
716.9 749.9	177.7	128.7	19.8	19.3	209.7	3.9	63.0	444.4	1,339.0 1,373.8	177.7	128.7	209.7
749.9 746.7	173.5	133.1 128.7 119.9 124.5 146.5 168.4 141.1 131.3 146.3 159.6	20.5 19.8 18.5 24.6 24.4 23.2 22.1 24.1 23.2 21.1	19.3 20.0 27.3	223.3 226.2	7.3 7.4 4.9 3.9 4.6 5.4 3.6	63.0 63.9 73.9 77.2	457.9 444.4 450.4 481.9	1,373.0	193.4 177.7 173.5 178.3 190.9	133.1 128.7 119.9 124.5 146.5	214.2 209.7 223.3 226.2 231.8 228.1 226.1 229.9 235.3 238.7 240.8 250.3 226.9 261.2 261.2
746.7 821.8	178.3 190.9	146.5	24.0	28.2	231.8	3.4	77.2	511.6 527.6 501.6 497.9	1,406.9 1,524.3 1,491.0 1,496.8 1,496.9	190.9	146.5	231.8
767 6	195.8	168.4	23.2	28.7	228.1	3.0	76.2	527.6	1,491.0	195.9	168.4	228.1
803.5 802.7	195.8 191.7	141.1	22.1	32.3	226.1	3.4	76.2 76.6	501.6	1,496.8	195.9 191.7 196.3	141.1	226.1
802.7	196.3	131.3	24.1	32.3 36.0 38.9 32.3	229.9	3.0 3.4 2.9 2.6 2.1	73.8 81.9 75.0	497.9	1,496.9	196.3	168.4 141.1 131.3 146.3 159.6	229.9
812.9	200.9 213.1	146.3	23.2	38.9	235.3	2.6	81.9	528.2 526.6	1,542.0 1,660.8	200.9 213.1	146.3	235.3
921.1	213.1	159.0	21.1	32.3 35.0	230.0	2.1	75.0 77.2	520.0 528.2	1,000.0	213.1	159.0	230.7 240.8
896.4 929.4 952.1	221.3 245.6	152.4 159.0 161.2 163.3 163.5 159.8 172.5	20.7 20.4	35.9 35.7	249.9	2.0 1.3	77.2 74.5 80.2	528.2 540.9 527.3	1,645.8 1,715.8	221.3 245.6 248.1	152.4 159.0 161.2	250.3
952.1	248.0	161.2	26.2	31.7	226.4	1.5	80.2	527.3	1.727.4	248.1	161.2	226.9
977.8	239.3 212.1	163.3	31.6	25.8	260.6	1.0	81.2	563.5 580.2	1,780.6	239.3 212.1	163.3 163.5 159.8 172.5	261.2
959.0	212.1	163.5	27.0	30.3	261.0	0.3	98.0	580.2	1.751.3	212.1	163.5	261.3
987.6 997.6	225.4 234.2	159.8	33.2	39.5 37.7	264.7	0.3 0.5 0.6	109.0	606.8 594.5	1,819.8 1,826.3	225.4 234.2	159.8	265.0
,013.1	234.2 216.7	172.5	35.5	34.0	254.2	0.6	94.2 113.0	594.5 628.0	1,826.3	234.2	172.5 178.8	254.4 266.6
950.9	236.1	196.8	38.5	36.0	262.1	0.6	149.2	683.2	1,870.2	236.1	196.8	264.2
943 7	231 4	155.4	31.6 27.0 33.2 35.5 34.9 38.5 31.5 34.2 35.3	45.6	269.0	0.8	109.0 94.2 113.0 149.2 142.1	683.2 644.5	1 819 5	236.1 231.5	196.8 155.4	265.0 254.4 266.6 264.2 273.9
961.8 986.3	233.4 240.9	176.2	34.2	51.3 47.0	282.9	0.4	159.0 161.4	704.0 697.6 699.4 690.1 645.7	1,899.1 1,924.8	233.4 240.9	176.2 182.8	273.2 279.8 279.5 278.3 265.2
986.3	240.9	182.8	35.3	47.0	270.3	0.9	161.4	697.6	1,924.8	240.9	182.8	279.8
,023.3	217.2 235.9 233.2	190.2	34.4 34.5 34.8	40.3 45.2	269.6	0.7 0.7	164.3 149.6 139.4	699.4	1,939.9 1,946.7 1,903.7	217.2	190.2 193.7 179.5	279.5
,020.7 ,024.8	235.9	193.7 179.5	34.5 34.8	45.2 42.1	200.4 240.0	0.7 (s)	149.6 139.4	690.1 645.7	1,946.7	230.0	193.7 170.5	2/8.3 265.2
937 1	214.3	166.3	30.1	55.8	254.4	0.4	133.4	640.1	1 791 4	214.3	167.7	271.2
937.1	214.3 239.1	169.1	30.1 R 56.9	55.8 56.0	251.3	(s) 0.4 0.4	133.1 110.3	640.1 R 644.0	1,791.4 R 1,892.9	217.2 236.0 233.2 214.3 239.1	167.7 170.2	271.2 268.6
.010.6	229.0 232.7 235.7	177.6	57.0	58.7 58.2	242.4	0.0 0.2	95.0	630.8	1.870.5	229.1 232.7	180.2 165.3	259.5 256.2
909.7	232.7	162.7	54.2	58.2	238.4	0.2	105.4	619.2	1,761.6	232.7	165.3	256.2
914.8	235.7	158.4 158.1	3/./	60.4	237.8	0.2	88.3	582.9 580.1	1,/33.4	235./	163.0 162.7	255.9 252 6
796.5	202.3 276 Q	150.1	34.7 35.7	63.0	233.9	0.2	90.9 95 <i>1</i>	590.1		276.0	156.7	255.9 253.6 262.1
736.6	279.9	149.7	30.6	66.4	250.6	(s)	R 103.1	600.4	1,616.9	280.0	155.9	268.4
639.4	296.7	144.7	31.7	73.7	249.4	0.2	R 78.2	R 577.8	R 1,513.8	296.7	150.5	267.3
655.9	356.7	156.3	35.9	80.8	250.2	0.1	H 78.0	H 601.4	H 1,613.9	356.8	161.8	268.0
574.5	361.2 B 044.0	150.9	39.1	77.2	249.3	0.0	ri 78.6	595.3	n 1,530.9	361.2 B 244.2	155.8	268.4 267.3 268.0 267.4 239.9
482.3 548.4	R 365 0	141.3 R 147.2	36.2 37.0	/4.9 83.2	223.2	0.0	64.5 R 77.0	540.2 R 583 A	R 1 407 2	R 366 0	146.3 R 140.6	239.9
523.3	402.5	147.3	37.0 40.9	87.3	238.9	0.1	62.3	503.0 578.3	1,497.3	402 7	153.0	257.5 256.9
914.8 913.5 796.5 736.6 639.4 655.9 574.5 482.3 548.4 523.3		262.3 276.9 279.9 296.7 356.7 361.2 R 344.9 R 365.9	262.3 158.1 276.9 151.4 279.9 149.7 296.7 144.7 356.7 156.3 361.2 150.9 R 344.9 141.3 R 365.9 R 147.3	229.0 177.6 57.0 232.7 162.7 54.2 235.7 158.4 37.7 262.3 158.1 34.7 276.9 151.4 35.7 279.9 149.7 30.6 296.7 144.7 31.7 356.7 156.3 35.9 361.2 150.9 39.1 R 344.9 141.3 36.2 R 365.9 R 147.3 37.0 402.5 150.9 40.9	235.7 158.4 37.7 60.4 262.3 158.1 34.7 60.4 276.9 151.4 35.7 63.0 279.9 149.7 30.6 66.4 296.7 144.7 31.7 73.7 356.7 156.3 35.9 80.8 361.2 150.9 39.1 77.2 R 344.9 141.3 36.2 74.9 R 365.9 R 147.3 37.0 83.2 402.5 150.9 40.9 87.3	200.9       146.3       23.2       38.9       235.3         213.1       159.6       21.1       32.3       236.6         221.3       152.4       20.7       35.9       239.9         245.6       159.0       20.4       35.7       249.9         248.0       161.2       26.2       31.7       226.4         239.3       163.3       31.6       25.8       260.6         212.1       163.5       27.0       30.3       261.0         225.4       159.8       33.2       39.5       264.7         234.2       172.5       35.5       37.7       254.2         216.7       178.8       34.9       34.0       266.3         231.4       155.4       31.5       45.6       269.0         233.4       176.2       34.2       51.3       282.9         240.9       182.8       35.3       47.0       270.3       282.9         240.9       182.8       35.3       47.0       270.3       282.9         240.9       182.8       35.3       47.0       270.3       282.9         240.9       182.8       35.3       47.0       270.3       282.9 <td>235.7       158.4       37.7       60.4       237.8       0.2         262.3       158.1       34.7       60.4       235.9       0.2         276.9       151.4       35.7       63.0       244.7       0.1         279.9       149.7       30.6       66.4       250.6       (s)         296.7       144.7       31.7       73.7       249.4       0.2         356.7       156.3       35.9       80.8       250.2       0.1         361.2       150.9       39.1       77.2       249.3       0.0         R 344.9       141.3       36.2       74.9       223.2       0.0         R 365.9       R 147.3       37.0       83.2       239.5       0.1         402.5       150.9       40.9       87.3       238.9       0.1</td> <td>239.1 169.1 36.9 36.0 231.3 0.4 110.5 229.0 177.6 57.0 58.7 242.4 0.0 95.0 232.7 162.7 54.2 58.2 238.4 0.2 105.4 235.7 158.4 37.7 60.4 237.8 0.2 88.3 262.3 158.1 34.7 60.4 235.9 0.2 90.9 276.9 151.4 35.7 63.0 244.7 0.1 95.4 279.9 149.7 30.6 66.4 250.6 (s) 7103.1 296.7 144.7 31.7 73.7 249.4 0.2 78.2 356.7 156.3 35.9 80.8 250.2 0.1 78.2 356.7 156.3 35.9 80.8 250.2 0.1 78.2 356.7 156.3 35.9 80.8 250.2 0.1 78.6 78.0 361.2 150.9 39.1 77.2 249.3 0.0 78.6 78.6 78.4 9 141.3 36.2 74.9 223.2 0.0 64.5 78.6 78.6 9 147.3 37.0 83.2 239.5 0.1 77.9 402.5 150.9 40.9 87.3 238.9 0.1 62.3</td> <td>235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 279.9 149.7 30.6 66.4 250.6 (s) 8.01.1 600.4 296.7 144.7 31.7 73.7 249.4 0.2 878.2 8577.8 356.7 156.3 35.9 80.8 250.2 0.1 878.0 8601.4 361.2 150.9 39.1 77.2 249.3 0.0 878.6 595.3 8344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 8365.9 8147.3 37.0 83.2 239.5 0.1 877.9 8583.0 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3</td> <td>235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 1,733.4 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,753.4 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,755.9 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 1,663.6 279.9 149.7 30.6 66.4 250.6 (s) 8103.1 600.4 1,616.9 296.7 144.7 31.7 73.7 249.4 0.2 878.2 8577.8 81,513.8 356.7 156.3 35.9 80.8 250.2 0.1 878.0 801.4 81,613.9 361.2 150.9 39.1 77.2 249.3 0.0 878.6 595.3 81,530.9 8344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 81,367.4 8365.9 8147.3 37.0 83.2 239.5 0.1 877.9 858.0 81,497.3 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1,504.1</td> <td>235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 1,733.4 235.7 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,755.9 262.3 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 1,663.6 276.9 279.9 149.7 30.6 66.4 250.6 (s) 8103.1 600.4 1,616.9 280.0 296.7 144.7 31.7 73.7 249.4 0.2 878.2 8577.8 81,513.8 296.7 356.7 156.3 35.9 80.8 250.2 0.1 878.0 801.4 81,613.9 356.8 361.2 150.9 39.1 77.2 249.3 0.0 878.6 595.3 81,530.9 361.2 8344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 81,367.4 8344.9 8365.9 8147.3 37.0 83.2 239.5 0.1 877.9 858.0 81,497.3 8366.0 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1,504.1 402.7</td> <td>235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 1,733.4 235.7 163.0 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,755.9 262.3 162.7 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 1,663.6 276.9 156.1 279.9 149.7 30.6 66.4 250.6 (s) R103.1 600.4 1,616.9 280.0 155.9 296.7 144.7 31.7 73.7 249.4 0.2 R78.2 R577.8 R1,513.8 296.7 150.5 356.7 156.3 35.9 80.8 250.2 0.1 R78.0 R601.4 R1,613.9 356.8 161.8 361.2 150.9 39.1 77.2 249.3 0.0 R78.6 595.3 R1,530.9 361.2 155.8 R344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 R1,367.4 R344.9 146.3 R365.9 R147.3 37.0 83.2 239.5 0.1 R79.9 R583.0 R1,497.3 R366.0 R149.6 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1,504.1 402.7 153.2</td>	235.7       158.4       37.7       60.4       237.8       0.2         262.3       158.1       34.7       60.4       235.9       0.2         276.9       151.4       35.7       63.0       244.7       0.1         279.9       149.7       30.6       66.4       250.6       (s)         296.7       144.7       31.7       73.7       249.4       0.2         356.7       156.3       35.9       80.8       250.2       0.1         361.2       150.9       39.1       77.2       249.3       0.0         R 344.9       141.3       36.2       74.9       223.2       0.0         R 365.9       R 147.3       37.0       83.2       239.5       0.1         402.5       150.9       40.9       87.3       238.9       0.1	239.1 169.1 36.9 36.0 231.3 0.4 110.5 229.0 177.6 57.0 58.7 242.4 0.0 95.0 232.7 162.7 54.2 58.2 238.4 0.2 105.4 235.7 158.4 37.7 60.4 237.8 0.2 88.3 262.3 158.1 34.7 60.4 235.9 0.2 90.9 276.9 151.4 35.7 63.0 244.7 0.1 95.4 279.9 149.7 30.6 66.4 250.6 (s) 7103.1 296.7 144.7 31.7 73.7 249.4 0.2 78.2 356.7 156.3 35.9 80.8 250.2 0.1 78.2 356.7 156.3 35.9 80.8 250.2 0.1 78.2 356.7 156.3 35.9 80.8 250.2 0.1 78.6 78.0 361.2 150.9 39.1 77.2 249.3 0.0 78.6 78.6 78.4 9 141.3 36.2 74.9 223.2 0.0 64.5 78.6 78.6 9 147.3 37.0 83.2 239.5 0.1 77.9 402.5 150.9 40.9 87.3 238.9 0.1 62.3	235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 279.9 149.7 30.6 66.4 250.6 (s) 8.01.1 600.4 296.7 144.7 31.7 73.7 249.4 0.2 878.2 8577.8 356.7 156.3 35.9 80.8 250.2 0.1 878.0 8601.4 361.2 150.9 39.1 77.2 249.3 0.0 878.6 595.3 8344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 8365.9 8147.3 37.0 83.2 239.5 0.1 877.9 8583.0 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3	235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 1,733.4 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,753.4 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,755.9 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 1,663.6 279.9 149.7 30.6 66.4 250.6 (s) 8103.1 600.4 1,616.9 296.7 144.7 31.7 73.7 249.4 0.2 878.2 8577.8 81,513.8 356.7 156.3 35.9 80.8 250.2 0.1 878.0 801.4 81,613.9 361.2 150.9 39.1 77.2 249.3 0.0 878.6 595.3 81,530.9 8344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 81,367.4 8365.9 8147.3 37.0 83.2 239.5 0.1 877.9 858.0 81,497.3 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1,504.1	235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 1,733.4 235.7 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,755.9 262.3 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 1,663.6 276.9 279.9 149.7 30.6 66.4 250.6 (s) 8103.1 600.4 1,616.9 280.0 296.7 144.7 31.7 73.7 249.4 0.2 878.2 8577.8 81,513.8 296.7 356.7 156.3 35.9 80.8 250.2 0.1 878.0 801.4 81,613.9 356.8 361.2 150.9 39.1 77.2 249.3 0.0 878.6 595.3 81,530.9 361.2 8344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 81,367.4 8344.9 8365.9 8147.3 37.0 83.2 239.5 0.1 877.9 858.0 81,497.3 8366.0 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1,504.1 402.7	235.7 158.4 37.7 60.4 237.8 0.2 88.3 582.9 1,733.4 235.7 163.0 262.3 158.1 34.7 60.4 235.9 0.2 90.9 580.1 1,755.9 262.3 162.7 276.9 151.4 35.7 63.0 244.7 0.1 95.4 590.3 1,663.6 276.9 156.1 279.9 149.7 30.6 66.4 250.6 (s) R103.1 600.4 1,616.9 280.0 155.9 296.7 144.7 31.7 73.7 249.4 0.2 R78.2 R577.8 R1,513.8 296.7 150.5 356.7 156.3 35.9 80.8 250.2 0.1 R78.0 R601.4 R1,613.9 356.8 161.8 361.2 150.9 39.1 77.2 249.3 0.0 R78.6 595.3 R1,530.9 361.2 155.8 R344.9 141.3 36.2 74.9 223.2 0.0 64.5 540.2 R1,367.4 R344.9 146.3 R365.9 R147.3 37.0 83.2 239.5 0.1 R79.9 R583.0 R1,497.3 R366.0 R149.6 402.5 150.9 40.9 87.3 238.9 0.1 62.3 578.3 1,504.1 402.7 153.2

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Kentucky (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 9.0	22.4	NA	NA	NA	NA	22.4	0.0	NA	NA	R 31.4	R 107.0	0.0	R 779.4
1965 1970	0.0 0.0	R 8.4 R 10.8	21.7 23.7	NA NA	NA NA	NA NA	NA NA	21.7 23.7	0.0 0.0	NA NA	NA NA	R 30.1 R 34.5	R -17.0	0.0 0.0	R 861.1
1971	0.0	H 12 1	24.9	NA	NA	NA	NA	24.9	0.0	NA	NA	R 36 9	R -17.0 R -106.0 R -122.0 R -114.1 R -89.9 R -98.6 R -4.6	0.0	R 1,065.5 R 1,074.8
1972	0.0	R 12.9 R 13.0	27.4	NA	NA	NA	NA	27.4	0.0	NA	NA	R 40.3 R 41.0	R -114.1	0.0	R 1,157.5 R 1,192.0
1973 1974	0.0 0.0	H 11 6	27.9 31.2	NA NA	NA NA	NA NA	NA NA	27.9 31.2	0.0 0.0	NA NA	NA NA	R <u>⊿</u> 2 g	R -98.6	0.0 0.0	H 1.178.1
1975	0.0	H 11 8	30.8	NA	NA	NA	NA	30.8	0.0	NA	NA	H 42.6	R-4.6	0.0	R 1 221 1
1976 1977	0.0 0.0	R 10.8 R 11.3	35.3 29.6	NA NA	NA NA	NA NA	NA NA	35.3 29.6	0.0 0.0	NA NA	NA NA	R 46.1 R 40.9	H -14.4 B 16.5	0.0 0.0	H 1,344.0
1978	0.0	H 10 Q	37.6	NA NA	NA NA	NA NA	NA NA	37.6	0.0	NA NA	NA NA	H 48 4	R-14.4 R 16.5 R-26.4 R-2.9 R-40.8 R-82.2 R-81.8	0.0	R 1,344.0 R 1,370.8 R 1,351.9
1979	0.0	R 13 4	41.7	NA	NA	NA	NA	41.7	0.0	NA	NA	R 55.2 R 35.3	R -2.9	0.0	R 1,384.6
1980 1981	0.0 0.0	R 10.0 R 8.9	25.3 28.0	NA (c)	NA NA	NA NA	NA 0.0	25.3 28.0	0.0 0.0	NA NA	NA NA	H 35.3 R 36.9	H -40.8 R -82.2	0.0 0.0	R 1,384.6 R 1,321.3 R 1,253.7
1982	0.0	T 11 /	34 4	(s) 0.2	NA	NA	0.0	34.6	0.0	NA	NA	H 46 0	R -81.8	0.0	H 1 212 A
1983	0.0	H 11 1	30.9 38.0	0.8	NA	NA	0.0	31.7	0.0	NA	0.0	R 42.7 R 52.6	R -84.0 R -52.7 R -106.3	0.0	R 1,223.8 R 1,322.0 R 1,285.2
1984 1985	0.0 0.0	R 12.0 R 10.0	38.0 38.8	2.6 3.6	NA NA	NA NA	0.0 0.0	40.6 42.4	0.0 0.0	0.0 0.0	0.0 0.0	R 52.6	R -52.7	0.0 0.0	R 1,322.0
1986 1987	0.0	R 9 3	34.7	5.5	NA	NA	0.0	40.3 36.1	0.0	0.0 0.0 0.0	0.0	R 49.6 R 46.2	R -163.4 R -149.5	0.0	R 1,260.0 R 1,303.5
1987	0.0	R <sub>10.1</sub>	29.7	6.4	NA	NA	0.0	36.1	0.0	0.0	0.0	R 46.2	R -149.5	0.0	R 1,303.5
1988 1989	0.0 0.0	R 8.3 R 15.0	31.4 26.9	5.5 4.0	NA NA	NA NA	0.0 0.0	37.0 30.9	0.0 0.2	0.0 (s)	0.0 0.0	R 45.2 R 46.2	R -184.3 R -72.6 R -58.5 R -39.3	0.0 0.0	R 1,385.3 R 1,464.6
1990	0.0	R 10.8 R 12.5 R 12.9	17.4	2.9	NA	NA	0.0	20.3	0.2	(s)	0.0	R 31.3 R 33.8	R -58.5	0.0	R 1,469.6 R 1,491.5
1991	0.0	H 12.5	18.2	2.9	NA	NA	0.0	21.1	0.3	(s)	0.0	H 33.8	H -39.3	0.0	H 1,491.5
1992 1993	0.0 0.0	R 10.8	18.8 15.2	3.4	NA NA	NA NA	0.0 0.0	22.1 17.3	0.3	(s) (s)	0.0	R 35.3 R 28.3	R -20.5 R -89 9	0.0 0.0	R 1,556.8
1994	0.0	R 10.8 R 13.7	15.2 14.9	2.1 0.9	NA	NA	0.0	17.3 15.8	0.3 0.4	(s)	0.0 0.0	R 28.3 R 29.9	R -20.5 R -30.6 R -24.8 R -21.4 R -59.8 R -68.5 R -42.1 R -59.0	0.0	R 1,599.2 R 1,645.1
1995	0.0	R 11.7 R 11.9	15.5	0.4	NA NA	NA	0.0	15.9	0.4	(s)	0.0	R 28.0 R 31.4	H -24.8	0.0	R 1,719.0 R 1,737.4
1996 1997	0.0 0.0	R 11.9	18.5 13.0	0.5 0.6	NA NA	NA NA	0.0 0.0	19.0 13.5	0.4 0.5	(s) (s)	0.0 0.0	R 25.5	R -59 8	0.0 0.0	R 1,737.4
1998	0.0	R 11.5 R 10.6	11.1	0.3	NA	NA	0.0	11.5	0.5 0.6	(s)	0.0	R 25.5 R 22.7	R -68.5	0.0	R 1,746.3 R 1,705.5 R 1,798.7 R 1,787.8
1999 2000	0.0 0.0	R 8.7 R 7.9	11.5 11.7	0.3 0.2	NA NA	NA NA	0.0 0.0	11.8 12.0	0.6 0.6	(s)	0.0 0.0	R 21.1 R 20.5	H -42.1	0.0 0.0	H 1,798.7
2000	0.0	R 132	12.7	0.2	(s)	NA NA	(s)	13.0	0.6	(s) (s)	0.0	R 26.9	11 - /h h	0.0	H 1 808 0
2002	0.0	H 13 7	21.2	2.2	0.1	NA	(s)	23.4 29.6	0.7	(s)	0.0 0.0	R 37.9 R 44.0	R 51.7 R 32.4	0.0	R 1,959.8 R 1,895.9
2003 2004	0.0 0.0	R 13.5 R 12.9	24.6	4.9 4.3	(s) 0.1	NA NA	(s) (s) 1.5	29.6 32.2	1.0 1.1	(s)	0.0 0.0	H 44.0 R 46.2	H 32.4	0.0 0.0	H 1,895.9 R 1,972.0
2004	0.0	H 10 1	26.4 32.6	9.5	0.1	NA NA	1.4	43.8	1.2	(s)	0.0	R 55 2	R 26.7 R 18.0	(s)	H 1.998.0
2006	0.0	R 8.8 R 5.7	30.4 32.5	9.9	0.9	NA	1.7	42.9 47.7	1.4	(s)	0.0	R 53.2 R 55.0	-0.6 R 30.4	0.0	R 1,992.5 R 2,032.1
2007 2008	0.0 0.0	R 5.7 R 6.5	32.5 32.3	11.9 15.3	1.3 1.1	NA NA	2.0 2.0	47.7 50.7	1.6 1.9	(s) (s)	0.0 0.0	R 55.0 R 59.1	H 30.4 B 21.4	0.0 0.0	<sup>H</sup> 2,032.1 <sup>R</sup> 1,994.2
2009	0.0	R 11.3 R 8.8	30.4	16.8	1.2	NA NA	2.0	50.3	2.3	0.1	0.0	R 64.0	R 51.3	0.0	R 1.906.7
2010	0.0	R 8.8	30.4 36.7	17.2	1.2 0.9	NA	1.9	56.7	2.5	0.1	0.0	R 68.1	R 24.1	0.0	R 1,906.7 R 1,985.2
2011 2012	0.0 0.0	R 10.1 _R 8.1	36.8 32.9	17.1 17.7	3.2 2.9	0.0 0.0	1.7 1.5	58.8 55.1	2.7 2.7 2.7 2.7 2.7	0.1	0.0 0.0	R 71.7 R 65.9	n -25.7 R 54 3	0.0 0.0	R 1,916.5
2013	0.0	H 11 2	38.2	18.1	4.5	0.0	1.5 1.5 1.5	55.1 62.3	2.7	0.1 R 0.1	0.0	H 76.3	R 10.6	0.0	R 1,881.8 R 1,820.3 R 1,761.4
2014	0.0	H 10 7	40.5	17.7	4.1	0.0	1.5	63.9	2.7	R 0.1	0.0	H 77.4	R 31.4 R 31.4 R 51.3 R 24.1 R -25.7 R 54.3 R 10.6 R -71.9	0.0	R 1,761.4
2015 2016	0.0 0.0	R 11.6 R 11.9	R 32.5	17.4 17.8	3.5 5.1	0.0 0.0	1.5 1.7	54.8 56.7	2.7 2.7	R 0.1	0.0 0.0	R 69.2 R 71.5	R -23.2 R -5.4	0.0 0.0	R 1,709.7 R 1,683.0
2017	0.0	R 11.9 R 15.4	32.1 34.9	18.0	4.2	0.0	1.7	58.7	2.7 2.7	R 0.2 R 0.2	0.0	H 77.0	H 39 4	(s)	R 1,683.0 R 1,630.2
2018	0.0	H 15 1	36.7	17.8	4.0	0.0	1.6	60.2	2.7	HNG	0.0	R 78.3	R 23.3 R 72.9	(s)	H 1 715 6
2019 2020	0.0 0.0	R 14.4 R 17.1	37.4 R 29.0	18.0 16.6	3.1 3.8	0.0 0.0	1.9 2.1	60.5 R 51.6	2.7 2.7	R 0.4 R 0.4	0.0 0.0	R 78.0 R 71.8	R 104.6	0.0 0.0	R 1,681.8 R 1,543.8
2021	0.0	<sup>R</sup> 16.6	H 30.5	18.0	3.3	0.0	2.2	R 54.0	2.7	H 0.5	0.0	R 73.8	H 76.8	0.0	H 1,647.9
2022	0.0	15.5	38.8	18.1	3.4	0.0	2.0	62.2	2.7	0.6	0.0	81.0	88.1	0.0	1,673.2

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Kentucky

						Petroleum					Bion	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
960	4,545	146	4,849	4,152	497	21,535	328	6,457	37,817	0					28,168			_
970	4,860	240	8,208	9,564	3,089	33,581	942	12,337	67,721	0					31,038			-
980	3,345	200	22,679	10,223	2,897	39,829	1,012	13,335	89,976	0					49,787			-
990	3,582 2,405	184 221	24,014 29,331	6,154 9,959	5,713 6,651	43,040 48,912	537 90	12,576 15,397	92,034 110,339	0					61,097 78,316			_
2005	2,405	217	31,196	9,959	8,284	53,899	140	20,140	123,635	0					89,351			_
2006	2,497	199	32,584	9,754	7,105	53,898	118	21,305	124,763	0					88,743			
2007	2,607	210	33,240	9,841	7,979	54,131	103	19,986	125,280	0					92,404			_
2008	2,266	216	30,802	9,899	7,425	51,934	(s)	18,216	118,276	0					93,428			-
2009	1,721	198	28,753	8,602	9,844	53,289	70	18,770	119,327	0					88,897			-
2010	1,979	213	29,234	R 14,809	9,880	53,002	56	14,362	R 121,344	0					93,569			-
011	1,879	207	30,980	14,851	10,352	51,262	0	12,795	120,240	0					89,538			-
012	1,150	195	28,431	14,121	10,270	50,604	39	14,803	118,269	0					89,048			-
013	1,088	215	28,066	9,931	10,660	50,575	31	12,219	111,483	0					84,764			
014	1,048	229	27,994	10,639	10,656	50,119	25	13,053	112,485	0					78,839			
015	1,011	219	26,842	11,024	11,115	51,823	15	14,129	114,949	0					76,039			
016	796	205	26,875	9,474	11,709	53,096	6	R 14,886 R 12.094	R 116,047 R 113,992	0					74,554			
017 018	848 772	202 227	25,946 27,909	10,019 11,350	12,999 14,255	52,909 53,037	26 13	R 12,823	R 119,387	0					72,634 76,611			
019	695	232	26,886	12,192	13,614	52,928	0	R 12,930	R 118,551	0					75,345			
020	594	R 226	25,250	11,442	13,213	47,477	0	R 10.574	R 107,955	0					71,800			
021	684	241	R 25,789	11,633	14,667	50,985	13	R 12,708	R 115,796	0					74,517			
2022	802	249	26,365	12,646	15,389	50,891	13	9,978	115,282	0					75,339			
									Trillion	Btu								
960	115.2	151.4	28.2	15.8	2.7	113.1	2.1	38.4	200.4	0.0	22.4	NA	NA	NA	96.1	585.6	R 193.8	R 779
970	118.5	243.6	47.8	35.7	17.4	176.4	5.9	73.7	356.9	0.0	23.7	NA	NA	NA	105.9	848.5	R 216.9	R 1,065
980	82.9	202.2	132.1	36.8	16.3	209.2	6.4	78.9	479.7	0.0	25.3	NA	NA	NA	169.9	959.9	R 361.4	R 1,321
990	90.8	191.4	139.9	22.1	32.3	226.1	3.4	76.6	500.3	0.0	17.4	0.0	0.2	(s)	208.5	1,011.5	R 458.1	R 1,46
000	64.6	229.9	170.7	35.5	37.7	254.4	0.6	94.2	593.0	0.0	11.7	0.0	0.6	(s)	267.2	1,167.1	R 620.8 R 704.9	R 1,78 R 1.99
005 006	65.4 64.8	223.1 204.5	181.5 189.1	35.3 34.4	47.0 40.3	279.8 279.5	0.9 0.7	120.5 126.7	665.0 670.7	0.0	31.8 29.4	1.4 1.7	1.2 1.4	(s) (s)	304.9 302.8	1,293.1 1,276.2	R 716.3	<sup>11</sup> ,99
000	67.0	216.1	192.3	34.5	45.2	278.3	0.7	119.2	670.2	0.0	31.3	2.0		(s)	315.3	1,304.7	R 727.4	R 2,03
008	59.1	223.4	178.0	34.8	42.1	265.2	(s)	108.1	628.2	0.0	31.0	2.0	1.9	(s)	318.8	1,265.4	R 728.8	R 1,99
009	44.7	205.7	166.1	30.1	55.8	271.2	0.4	111.6	635.3	0.0	29.5	2.0	2.3	0.1	303.3	1.222.8	R 684.2	R 1,90
010	51.4	219.3	168.8	R 56.9	56.0	268.6	0.4	86.6	R 637.2	0.0	36.1	1.9	2.5	0.1	319.3	R 1,267.8	R 717.5	R 1,98
011	49.0	213.2	178.8	57.0	58.7	259.5	0.0	77.6	631.7	0.0	36.2	1.7	2.7	0.1	305.5	1,240.0	R 675.9	R 1,91
012	29.9	200.8	164.0	54.2	58.2	256.2	0.2	89.9	622.7	0.0	31.7	1.5	2.7	_ 0.1	303.8	1,193.3	R 688.2	R 1,88
013	28.2	220.8	161.7	37.7	60.4	255.9	0.2	74.0	590.1	0.0	37.0	1.5		R 0.1	289.2	1,169.6	R 650.9	R 1,82
014	27.1	234.7	161.3	34.7	60.4	253.6	0.2	79.4	589.6	0.0	39.4	1.5	2.7	R 0.1	269.0	R 1,164.0	R 597.8	H 1,76
015	26.8	223.9	154.7	35.7	63.0	262.1	0.1	84.8	600.4	0.0	R 31.4			R 0.1		1,146.2	R 564.8	R 1,71
016	20.8	211.5	154.7	30.6	66.4	268.4	(s)	90.5	610.6 B 505.7	0.0	30.9	1.7	2.7	R 0.1	254.4	R 1,132.6	R 551.4	R 1,68
017	22.5	211.8	149.4	31.7	73.7	267.3	0.2	R 73.4 R 78.0	R 595.7 R 623.6	0.0	33.5	1.7	2.7	R 0.2 R 0.2		R 1,115.8	R 516.0 R 533.1	R 1,63 R 1,71
018	20.0	239.1	160.7 154.8	35.9 39.1	80.8	268.0 267.4	0.1	<sup>11</sup> 78.0 R 78.6		0.0	35.5	1.6	2.7	R 0.2	261.4 257.1	R 1,184.0 R 1,176.8	R 506.9	11,71 R 1,68
019	18.2 15.5	243.3 R 237.3	154.8 145.3	39.1 36.2	77.2 74.9	267.4	0.0	64.5	617.2 560.9	0.0	36.2 R 27.6	1.9 2.1	2.7 2.7	R 0.2	257.1 245.0	R 1,091.4	R 453.6	R 1.54
2020	17.5	R 253.4	R 148.6	37.0	83.2	257.5	0.0	R 77.9	R 604.3	0.0	R 29.1	2.1		R 0.3	254.3	R 1,163.6	R 485.1	R 1,648
2022	20.7	261.4	152.0	40.9	87.3	256.9	0.1	62.1	599.2	0.0	37.5	2.0	2.7	0.3	257.1	1,181.0	493.1	1,674
.044	20.7	201.4	152.0	₹0.5	07.3	250.9	0.1	٥٤.١	JJ3.2	0.0	37.3	2.0	2.1	0.4	237.1	1,101.0	₩-00. I	1,07

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Kentucky

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	d barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	428	63	242	1,416	897	2,554				2,760			
1965 1970	274 296	64	278 403	1,617	1,653 2,077	3,548 5,884				3,763 6,987			
1970	296	64 86	403	3,403	2,077	5,884				6,987			
1975 1980 1985	88 60 55	79	442	3,793	1,073 1,751 833	5,308 4,663 3,298				9,586 13,075			
1980	60	74 60	820 856	2,092 1,609	1,751	4,663				13,075			
1985	30	50	740	1,609	321	3,298				14,539			
1995	17	56 66	748 723 527	1,851 2,291	415	2,921 3,429				16,814 20,537			
2000	21	65	527	2,814	316	3 657				23 374			
2005	23 12	56	370	2.148	251	2.769				26.947			
2005 2006		56 47	370 255	2,148 1,955	251 160	2,769 2,369 2,458				26,947 25,949			
2007	14	52	245	2 113	100	2,458				28,004			
2008	0	55 52 54	231 321 113	2,429 2,536 2,649	60	2,720				28,004 27,562 26,561 29,137			
2009 2010	0	52	321	2,536	114 111	2,971 2,873				26,561			
2010	0	54 51	270	2,049	0/	2,073				29,137			
2012	0	43	80	2,361 1,625	94 20	2,725 1,725				27,198 26,097			
2013	ő	54	106	1.811	21	1.937				26.788			
2013 2014 2015	Ö	58	101	2,181 2,079	44	1,937 2,326 2,216				26,788 27,400 26,168			
2015	Ö	58 49	111	2,079	44 26	2,216				26,168			
2016	0	46	93	1,514	30 15	1.637				26,338 24,883			
2017	0	43	91	1,165	15	1,271				24,883			
2018	0	51	73	1,542	18	1,633 2,246				27,713			
2019 2020	0	49 46	87 67	2,133 1,557	26 23	2,246 1,647				26,573 25,935			
2021	0	47	108	1,793	23	1,923				26,434			
2022	ŏ	50	111	2,218	21	2,350				26,840			
				-		-	Trillion Btu			·			
1960	10.5	65.2	1.4	5.4	5.1	11.9	14.9	NA	NA	9.4	111.9	B 10.0	R 130.9 R 139.1 R 204.9 R 215.4 R 253.7 R 256.3 R 269.7 R 325.7 R 354.7 R 385.6 R 266.0
1965	6.6	65.9	1.6	6.2	9.4	17.9	11.2	NA	NA NA	12.8	113.8	R 25.3	R 139 1
1970	6.9	87.9	2.3	13.1	11.8	27.2	10.1	NA	NA	23.8	156.0	R 19.0 R 25.3 R 48.8	R 204.9
1975	2.0	79.8	2.3 2.6	14.6	6.1	17.2 27.2 23.2	10.8	NA	NA	23.8 32.7	148.6	R 66.8	R 215.4
1980	1.4	74.9	4.8	8.0	9.9 4.7	22.7 15.9	15.2	NA NA	NA	44.6	158.8	R 94.9	R 253.7
1985 1990	1.3	61.9	5.0	6.2	4.7	15.9	26.8	NA	ŅĄ	49.6	155.5	H 100.8	H 256.3
1990	0.7 0.4	58.3 72.5	4.4	7.1	1.8	13.3 15.4	13.7	0.2 0.3	(s)	57.4 70.1	143.6	n 126.1	n 269.7
1995 2000	0.4	67.3	4.2 3.1	8.8 10.8	2.4 1.8	15.4	10.8 5.8	0.3	(s) (s) (s)	70.1 79.8	169.5 169.4	R 105.2	11 325.7 R 25.4 7
2005	0.6	57.8	2.2	8.2	1.4	11.8	10.2	0.4	(5)	91.9	173.0	R 212 6	R 385 6
2006	0.3	48.8	1.5	7.5	0.9	9.9	9.0	0.9	(s) (s) (s)	88.5	157.4	R 209.5	R 366.9 R 390.4 R 389.5
2006 2007	0.3 0.3	48.8 52.9 57.0	1.4	8.1	0.6	10.1	10.0	0.9 1.1	(s)	88.5 95.5 94.0	169.9	R 220.4	R 390.4
2008	0.0	57.0	1.3	9.3	0.3	11.0	11.2	1.3	(s) 0.1	94.0	174.5	R 215.0	R 389.5
2009	0.0	53.7	1.9	9.7	0.6	12.2 11.5	14.0	1.6	0.1	90.6 99.4	172.2	R 204.4	R 376.7 R 407.2
2010	0.0	56.1	0.7	10.2	0.6	11.5	15.0	1.8	0.1	99.4	183.8	H 223.4	H 407.2
2011	0.0 0.0	52.1 44.4	1.6 0.5	9.1 6.2	0.5 0.1	11.2	14.6 12.2	1.7 1.9 1.9	0.1 0.1	92.8 89.0 91.4	172.4 154.4	P 205.3	R 377.7 R 356.1 R 378.2 R 387.6
2012 2013	0.0	55.5	0.5	6.2 7.0	0.1	6.8 7.7	15.9	1.9	0.1	09.0	154.4 172.5	R 201.7	336.1 R 378.2
2013	0.0	59.1	0.6	8.4	0.3	9.2	16.1	1.9	0.1	93.5	172.3	R 207 8	R 387 6
2015	0.0	50.5	0.6	8.0	0.2	8.8	8.6	1.9	0.1	89.3	159.1	R 194.4	R 353.4
2016	0.0	46.8	0.5	5.8	0.2	6.5	7.5	1.9	0.1 R 0.1	89.3 89.9 84.9	152.7	R 194.8	R 353.4 R 347.5 R 321.5
2017	0.0	45.2	0.5	4.5	0.1	5.1	7.6	1.9	R 0.1	84.9	144.8	R 176.8	R 321.5
2018	0.0	54.1 51.2	0.4	5.9	0.1	6.4	9.3	1.9	R 0.1	94.6	166.4 163.0	H 192.8	R 359.2 R 341.7
2019	0.0	51.2	0.5	8.2	0.1	8.8	10.3	1.9	R 0.1	90.7	163.0	n 178.8	n 341.7
2020 2021	0.0 0.0	48.3 R 40.2	0.4 0.6	6.0 6.9	0.1 0.1	6.5 7.6	10.3 R 6.1 R 5.6	1.9 1.9	0.2 R 0.2	88.5 90.2	R 151.4 R 154.8	R 66.8 R 94.9 R 100.8 R 126.1 R 156.2 R 185.3 R 212.6 R 209.5 R 220.4 R 215.0 R 204.4 R 223.4 R 205.3 R 201.7 R 205.7 R 207.8 R 194.8 R 176.8 R 194.8 R 178.8 R 178.8 R 163.8 R 172.1	R 315.2 R 326.9
2021	0.0	48.3 R 49.3 52.4	0.6	8.5	0.1	9.3	7.3	1.9	R 0.2 R 0.2 0.3	91.6	162.7	175.7	338.4
	0.0	02.1	0.0	0.0	0.1	0.0	7.5	1.0	0.0	01.0	102.7	1,0.,	000.4

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Kentucky

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	298	18	501	227	176	336	4	1,243	NA			NA	1,590			
1965	206	21	576	259 545	325	268	8	1,436	NA NA			NA	2,166			
1970 1975	233 204	42 38	835 915	607	408 211	263 275	11 7	2,063 2,016	NA NA			NA NA	3,465 6,489			
1980	227	38 39 34 32 39	2,632	335	622	250	19	3,858	NA			NA	8,432			
1985 1990	194 121	34 32	1,579 762	258 296	92 94	377 445	(s)	2,307 1,598	NA 0			NA 0	9,465 11,740			
1995	113	39	1,114	367	117	42	(s) 0	1,640	ŏ			Ö	13,521			
2000 2005	170 266	39 37 33	1,082 773	450 310	70 27	40 42	8	1,650 1,153	0			0	17,252 19,091			
2006	119	33	749	308	20	43	ò	1,120	0			0	18,941			
2007	122	34 37	661 552	243	10	43 43	0	957	0			0	20,035			
2008 2009	55 48	37 35	409	498 366	6	43 43	0	1,100 824	0			0	19,669 18,734			
2010	44	37	331	324	7	43	Ŏ	705	Ŏ			(s)	19,411			
2011 2012	45 31	35 31	391 401	507 417	6 2	43 42	0	946 863	0			2	18,721 18,756			
2013	15	37	451	475	2	44 42	ő	972	ő			11	21,004			
2014	19	40	521	379	6		0	948	0			11	19,157			
2015 2016	15 14	35 34	675 1,178	349 351	6 9	735 775	0	1,763 2,313	0			12 13	19,589 19,981			
2017	14	34 33	624	390	5	785	ŏ	1,805	ŏ			15	19,293			
2018 2019	5 6	38 37	739 838	501 716	7 8	796 804	0	2,042 2,366	0			19 22	19,980 19,612			
2020	3	34	719	501	9	805	0	2,033	0			23	18,061			
2021	3	36 38	590 598	547	7	813	0	1,956 2,206	0			28 37	18,686			
2022	Į.	38	598	768	6	835	U		lion Btu			3/	19,674			
1000	7.0	10.0					( )							20.5	P.100	P 40.4
1960 1965	7.3 5.0	18.9 21.9	2.9 3.4	0.9 1.0	1.0 1.8	1.8 1.4	(s) (s) 0.1	6.6 7.7	NA NA	0.3 0.2	NA NA	NA NA	5.4 7.4	38.5 42.2	R 10.9 R 14.5	R 49.4 R 56.7
1965 1970	5.5	43.2	4.9	2.1	2.3	1.4	0.1	10.7	NA	0.2	NA	NA	11.8	71.4	R 24.2 R 45.2	R 56.7 R 95.6
1975 1980	4.7 5.4	38.8 39.7	5.3 15.3	2.3 1.3	1.2 3.5	1.4 1.3	(s) 0.1	10.4 21.6	NA NA	0.2 0.4	NA NA	NA NA	22.1 28.8	76.2 95.8	R 45.2 R 61.2	R 121.4 R 157.0
1985	4.7	34.8	9.2	1.0	0.5	2.0	(s)	12.7	NA NA	0.6	NA NA	NA NA	32.3	85.2	R 65 6	R 150 8
1990 1995	2.9 2.8	33.1 42.3	4.4	1.1	0.5 0.7	2.3	(s) (s) 0.0	8.4	0.0	1.5 1.5	0.0	0.0	40.1	86.1	R 88.0 R 102.8 R 136.7	H 174 1
2000	4.5	42.3 40.2	6.5 6.3	1.4 1.7	0.7	0.2 0.2	0.0	8.8 8.7	0.0 0.0	1.5	0.1 0.2	0.0 0.0	46.1 58.9	101.7 113.4	R 136.7	R 204.5 R 250.2
2005	6.4	38.0	4.5	1.2	0.2	0.2	(s) 0.0	6.1	0.0	1.6	0.5	0.0	65.1	117.7	H 150 6	R 268.3
2006 2007	2.8	33.5 35.3	4.3 3.8	1.2 0.9	0.1 0.1	0.2 0.2	0.0 0.0	5.9 5.0	0.0 0.0	1.5 1.6	0.5 0.5	0.0 0.0	64.6 68.4	108.9 113.7	R 152.9 R 157.7	R 261.8 R 271.4
2008	2.9 1.5	38.5	3.2	1.9	(s)	0.2	0.0	5.4	0.0	1.7	0.6	0.0	67.1	114.7	R 153.4 R 144.2	R 268.1 R 252.8
2009	1.3	36.7	2.4	1.4	(s)	0.2	0.0	4.0	0.0	2.0	0.7	0.0	63.9	108.6	R 144.2 R 148.8	R 252.8
2010 2011	1.2 1.2	37.9 35.5	1.9 2.3	1.2 1.9	(s) (s)	0.2 0.2	0.0 0.0	3.4 4.5	0.0 0.0	2.0 1.9	0.8 1.0	(s) (s)	66.2 63.9	111.5 _ 108.0	R 141 3	R 260.3 R 249.3
2012	0.9	31.7	2.3	1.6	(s)	0.2	0.0	4.1	0.0	1.6	0.9	(e)	64.0	R 103.2	R 145 0	R 248 2
2013 2014	0.4 0.5	38.3 41.0	2.6 3.0	1.8 1.5	(s)	0.2 0.2	0.0 0.0	4.7	0.0 0.0	1.9 2.0	0.9 0.9	R (s) R (s)	71.7	117.9	R 161.3	R 279.2 R 259.7
2015	0.4	36.2	3.9	1.3	(s) (s)	3.7	0.0	4.7 9.0	0.0	1.3	0.9	R (s)	65.4 66.8	114.5 R 114.5	R 145.3 R 145.5	R 260.0
2016	0.4	34.5	6.8	1.3	0.1	3.9	0.0	12.1	0.0	1.3	0.9	R (s)	68.2	117.4	R 1/17 R	R 265 1
2017 2018	0.4 0.1	34.3 40.4	3.6 4.3	1.5 1.9	(s) (s)	4.0 4.0	0.0 0.0	9.1 10.2	0.0 0.0	1.4 1.4	0.9 0.9	0.1 B 0.1	65.8 68.2	111.9 R 121.3	R 137.1 R 139.0	R 248.9 R 260.3
2019	0.2	39.2	4.8	2.8	(s)	4.1	0.0	11.7	0.0	1.5	0.9	H O 1	66.9	R 120 4	R 121 0	R 252.3
2020 2021	0.1 0.1	35.6 37.8	4.1 3.4	1.9 2.1	0.1 (s)	4.1 4.1	0.0 0.0	10.2 9.6	0.0 0.0	1.4 1.3	0.9 0.9	R 0.1 R 0.1	61.6 63.8	R 109.8 R 113.5	R 114.1 R 121.7	R 223.9 R 235.1
2021	(s)	40.5	3.4	2.1	(S) (S)	4.1	0.0	10.6	0.0	1.3	0.9	0.1	67.1	120.6	128.8	249.4
	\-/				1-7											

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Kentucky

Production   Pro						Petro	eum				Bio	mass						
Thousand part   Thousand par		Coal			HGL <sup>b</sup>			Other <sup>d</sup>	Total			1		Solar <sup>f,i</sup>	Electricity <sup>j</sup>			
1977 4 2269 776 2,0778 5,560 2009 786 9,1538 17,789 0	Year					Thousand	d barrels					and co-				End use <sup>f,k</sup>	energy	Total f,k
1977 4 2269 776 2,0778 5,560 2009 786 9,1538 17,789 0	1960	3.754	46	1.558	2.476	485	289	4.326	9.134	0				NA	23.818			
1890   3,052   66   6,438   7,784   89   897   10,252   25,484   0       NA   25,289         1890   3,451   72   6,054   3,941   848   557   11,580   22,560   0       0   40,499         1890   3,794   33   6,120   2,902   1,168   2011   11,168   21,546   0       0   40,499         0   20,245           0   20,245           0   20,245           0   20,245           0   20,245             0   20,245	1965	4,879	58	1,987	3,957	430	536	5,873	12,783	•				NA	20,893			
1890   3,052   66   6,438   7,784   89   897   10,252   25,484   0       NA   25,289         1890   3,451   72   6,054   3,941   848   557   11,580   22,560   0       0   40,499         1890   3,794   33   6,120   2,902   1,168   2011   11,168   21,546   0       0   40,499         0   20,245           0   20,245           0   20,245           0   20,245           0   20,245             0   20,245	1970	4,325	75		5,562	209	786	9,153	17,788	0					20,586			
1985 3,739 632 5,838 3,574 843 621 8,989 19,984 0 NA 25,543 NA 25,543 NA 25,543 NA 25,543 NA 25,543 NA 25,543	1975	2,898 3,058	66 66	3,346 6.433	7 784	195	2,059 857	10 332	22,099 25 494	0					28 280			
1986 3,679 93 6,120 2,902 1,169 201 11,150 21,446 0 0 40,480 0 20,000 2,240 116 4,409 11 11,150 21,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 4,141 116 116 4,141 116 4,141 116 116 4,141 116 116 4,141 116 116 4,141 116 116 4,141 116 116 4,141 116 116 4,141 116 116 4,141 116 116 116 116 116 116 116 116 116	1985	3,732	63	5,838	3,574	843	621	8,989	19,864	ŏ					26,564			
2000	1990	3,431	72	6,054			537	11,580	22,960	0					32,543			
2006	1995	3,679	93	6,120	2,902	1,168	201	11,156	21,546	0					40,490			
2006 2,367 112 5,012 7,376 2,307 118 0,5016 35,428 0 0 4,3853 0 4,000 2	2005	2,214			7 427			19,439	33 649	0					37,669			
2000   1,673   99   6,091   5,5111   804   70   18,225   80,801   0       0   43,602         20,101   1	2006	2,367	112	5,012	7,376			20.616	35.428	ő					43,853			
2000   1,673   99   6,091   5,5111   804   70   18,225   80,801   0       0   43,602         20,101   1	2007	2,472	113	4,750	7,393	1,147	103	19,353	32,747	0					44,366			
2010 1,335 108 5,878		2,212					(S)	17,675	31,530	0				•	46,198			
2011   1,834   110   6,727   11,964   747   0   12,214   31,653   0         0   43,619         2014   1,102   117   5,74   12,065   697   31   14,444   32,815   0         0   44,192       2014   1,103   127   5,74   12,065   697   31   14,444   32,815   0         0   32,223         2014   1,103   122   4,161   8,069   508   25   12,538   25,220   0         0   32,223         2016   782   121   3,405   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   6   7,574   563   7,574   563   7,574   563   7,574	2009	1,673	108	5,091	R 11 819	757	50	13 739	R 32 243	0					45,602			
2014 1,030 122 4,161 8,059 508 25 12,538 25,290 0 0 32,283 0 32,281 1	2011	1.834	110	6.727	11.964	747	0	12.214	31,653	ő				Ö	43,619			
2014 1,030 122 4,161 8,059 508 25 12,538 25,290 0 0 32,283 0 32,281 1	2012	1,118	112	5,674	12,063		39	14,347	32,814	0					44,196			
2016 996 123 3,436 8,570 533 15 13,598 26,152 0 0 30,281 20 2016 782 121 3,405 7,574 583 6 8 14,373 8,25921 0 (8) 28,234 2017 834 119 3,052 8 8,447 588 26 8 11,532 8 23,724 0 (8) 28,459 2018 834 119 3,052 8 8,447 588 26 8 11,532 8 23,724 0 0 (8) 28,459 2020 891 127 3,719 9,324 585 10 8 12,482 8 25,88 10 8 12,48 10 12	2013	1,073		5,457	7,627		31	11,754	25,567	0				•	36,972			
2017 834 119 3.052 8.447 558 26 118.2362 128.252 0 (s) 28.450	2014	996	123	3 436	8 570	533	25 15	12,556	26,290	0					32,203			
2017 834 119 3.052 8.447 558 26 118.2362 128.252 0 (s) 28.450	2016	782			7,574	563		R 14,373	R 25 021	ŏ					28,234			
1960	2017	834		3,052	8,447	568		R 11,632	R 23,724	0				(s)	28,459			
1960	2018	767	123	3,418	9,294	572		H 12,366	R 25,663	0				1	28,917			
1960	2019		R 122			562	0	R 10 165	R 23 623	0		==		1	29,101			
1980   95.9	2021		128	3,371	9,283	564	13	R 11,926	R 25,156	ŏ					29,397			
1960   95.9   47.7   9.1   9.4   2.5   1.8   26.6   49.4   0.0   7.3   NA   NA   NA   NA   NA   81.3   281.6   6   163.9   64.5   1965   123.9   60.0   11.6   15.0   2.3   3.4   35.7   67.9   0.0   10.2   NA   NA   NA   NA   71.3   333.3   6   140.2   6   473.5   7.5   7.1   71.1   66.6   19.5   23.0   1.0   12.9   60.4   116.9   0.0   19.8   NA   NA   NA   NA   NA   70.2   33.5   88.8   143.9   79.0   197.5   71.1   66.6   49.5   23.0   1.0   12.9   60.4   116.9   0.0   19.8   NA   NA   NA   NA   NA   105.8   380.2   6   216.0   6   596.5   1985   94.2   65.1   34.0   12.2   4.4   3.9   54.6   109.1   0.0   11.4   0.0   NA   NA   NA   96.5   381.2   6   205.3   1985   94.2   65.1   34.0   12.2   4.4   3.9   54.6   109.1   0.0   11.4   0.0   NA   NA   NA   90.6   370.5   6   184.2   6   1995   94.2   102.4   35.6   10.0   6.1   1.3   68.2   121.2   0.0   3.2   0.0   0.0   0.0   0.0   111.0   40.2   24.4   9.9   47.6   49.4   1995   94.2   102.4   35.6   10.0   6.1   1.3   68.2   121.2   0.0   3.2   0.0   0.0   0.0   0.0   128.6   44.3   9.99.7   747.1   2005   58.5   118.9   26.8   25.5   11.1   0.9   115.8   180.1   0.0   20.0   1.4   0.0   0.0   0.0   128.6   44.3   0.99.7   747.1   2005   58.5   118.9   26.8   25.5   11.1   0.9   115.8   180.1   0.0   1.4   0.0   0.0   0.0   0.0   147.8   526.6   6   341.7   6   64.2   6   64.2   6   64.2	2022	801	134	3,407	9,640	580	13	9,158	22,798	0				2	28,825			
1970 105.9 76.1 12.1 20.3 1.1 4.9 55.7 94.1 0.0 13.4 NA NA NA NA 70.2 359.8 H143.9 H503.7 F11.5 66.6 19.5 23.0 1.0 12.9 60.4 116.9 0.0 19.8 NA NA NA NA NA 105.8 380.2 H216.0 H596.2 1980 76.1 66.4 37.5 27.4 0.5 5.4 61.7 132.5 0.0 9.7 NA NA NA NA 96.5 381.2 H205.3 H586.5 1985 94.2 65.1 34.0 12.2 4.4 3.9 54.6 109.1 0.0 11.4 0.0 NA NA NA 96.5 381.2 H205.3 H586.7 1990 87.1 74.4 35.3 13.6 4.5 3.4 70.7 127.4 0.0 2.2 0.0 0.0 0.0 0.0 138.2 459.1 H84.2 H25.4 1995 94.2 102.4 35.6 10.0 61. 1.3 68.2 121.2 0.0 3.2 0.0 0.0 0.0 0.0 138.2 459.1 H84.2 H26.2 10.0 59.6 107.9 25.8 22.7 4.3 0.5 88.5 141.9 0.0 50.0 0.0 0.0 0.0 147.8 526.6 443.0 H28.2 10.0 58.5 118.9 26.8 25.5 11.1 0.9 15.8 H80.1 0.0 20.0 1.4 0.0 0.0 0.0 147.8 526.6 443.0 H28.2 10.0 0.0 0.0 147.8 526.6 H28.2 10.0 0.0 0.0 0.0 149.6 537.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 0.0 151.4 527.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 157.6 57.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 157.6 57.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 148.8 476.6 H38.2 2009 43.4 102.2 35.2 H8.6 4.1 0.4 108.4 H66.7 0.0 18.2 2.0 0.0 0.0 0.0 148.8 476.6 H38.2 201 478.4 10.2 35.2 H8.6 4.1 0.4 108.4 H66.7 0.0 18.2 2.0 0.0 0.0 0.0 148.8 485.0 H34.6 H34.2 201 50.2 111.2 33.9 H45.4 3.8 0.3 82.9 H66.3 0.0 19.1 1.9 0.0 0.0 148.8 485.0 H34.6 H32.2 201 2.9 1 115.8 32.7 46.3 3.5 0.2 87.1 169.9 0.0 19.7 1.7 0.0 0.0 148.8 485.0 H34.6 H32.2 201 42.4 119.5 31.5 22.9 3.5 24.6 0.2 76.3 127.8 0.0 19.2 1.5 0.0 0.0 150.8 485.0 H34.6 H32.2 10.0 14.2 12.2 12.4 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5										Trillion Bt	u							
1970 105.9 76.1 12.1 20.3 1.1 4.9 55.7 94.1 0.0 13.4 NA NA NA NA 70.2 359.8 H143.9 H503.7 F11.5 66.6 19.5 23.0 1.0 12.9 60.4 116.9 0.0 19.8 NA NA NA NA NA 105.8 380.2 H216.0 H596.2 1980 76.1 66.4 37.5 27.4 0.5 5.4 61.7 132.5 0.0 9.7 NA NA NA NA 96.5 381.2 H205.3 H586.5 1985 94.2 65.1 34.0 12.2 4.4 3.9 54.6 109.1 0.0 11.4 0.0 NA NA NA 96.5 381.2 H205.3 H586.7 1990 87.1 74.4 35.3 13.6 4.5 3.4 70.7 127.4 0.0 2.2 0.0 0.0 0.0 0.0 138.2 459.1 H84.2 H25.4 1995 94.2 102.4 35.6 10.0 61. 1.3 68.2 121.2 0.0 3.2 0.0 0.0 0.0 0.0 138.2 459.1 H84.2 H26.2 10.0 59.6 107.9 25.8 22.7 4.3 0.5 88.5 141.9 0.0 50.0 0.0 0.0 0.0 147.8 526.6 443.0 H28.2 10.0 58.5 118.9 26.8 25.5 11.1 0.9 15.8 H80.1 0.0 20.0 1.4 0.0 0.0 0.0 147.8 526.6 443.0 H28.2 10.0 0.0 0.0 147.8 526.6 H28.2 10.0 0.0 0.0 0.0 149.6 537.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 0.0 151.4 527.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 157.6 57.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 157.6 57.1 H354.0 H38.2 10.0 H38.2 17.0 0.0 0.0 148.8 476.6 H38.2 2009 43.4 102.2 35.2 H8.6 4.1 0.4 108.4 H66.7 0.0 18.2 2.0 0.0 0.0 0.0 148.8 476.6 H38.2 201 478.4 10.2 35.2 H8.6 4.1 0.4 108.4 H66.7 0.0 18.2 2.0 0.0 0.0 0.0 148.8 485.0 H34.6 H34.2 201 50.2 111.2 33.9 H45.4 3.8 0.3 82.9 H66.3 0.0 19.1 1.9 0.0 0.0 148.8 485.0 H34.6 H32.2 201 2.9 1 115.8 32.7 46.3 3.5 0.2 87.1 169.9 0.0 19.7 1.7 0.0 0.0 148.8 485.0 H34.6 H32.2 201 42.4 119.5 31.5 22.9 3.5 24.6 0.2 76.3 127.8 0.0 19.2 1.5 0.0 0.0 150.8 485.0 H34.6 H32.2 10.0 14.2 12.2 12.4 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	1960	95.9	47.7	9.1	9.4	2.5	1.8	26.6	49.4	0.0	7.3			NA	81.3	281.6	R 163.9	R 445.4
1985   94.2   65.1   34.0   12.2   4.4   3.9   54.6   109.1   0.0   11.4   0.0   NA   NA   90.6   370.5   184.2   1954.6   1995   94.2   102.4   35.6   10.0   6.1   1.3   68.2   121.2   0.0   3.2   0.0   0.0   0.0   0.0   138.2   459.1   1307.9   1767.1   2005   58.5   118.9   26.8   25.5   11.1   0.9   115.8   180.1   0.0   20.0   1.4   0.0   0.0   147.8   526.6   1341.7   1868.3   2006   61.7   115.5   29.1   25.2   12.0   0.7   122.7   189.7   0.0   18.8   1.7   0.0   0.0   147.8   526.6   1341.7   1868.3   115.7   27.5   25.1   5.9   0.7   115.5   174.6   0.0   19.8   2.0   0.0   0.0   0.0   151.4   527.1   19.49.2   18.76.3   2009   43.4   102.2   35.2   18.6   4.1   0.4   108.4   166.7   0.0   135.5   2.0   0.0   0.0   148.8   476.6   19.34.6   19.2   12.2   2011   47.8   112.8   38.8   45.9   3.8   0.3   82.9   8166.3   0.0   19.7   1.7   0.0   0.0   153.8   459.2   434.5   434.6   459.4   459.1   42.8   439.1   43.8	1965			11.6	15.0	2.3	3.4	35.7			10.2					333.3	H 140.2	H 473.5
1985   94.2   65.1   34.0   12.2   4.4   3.9   54.6   109.1   0.0   11.4   0.0   NA   NA   90.6   370.5   184.2   1954.6   1995   94.2   102.4   35.6   10.0   6.1   1.3   68.2   121.2   0.0   3.2   0.0   0.0   0.0   0.0   138.2   459.1   1307.9   1767.1   2005   58.5   118.9   26.8   25.5   11.1   0.9   115.8   180.1   0.0   20.0   1.4   0.0   0.0   147.8   526.6   1341.7   1868.3   2006   61.7   115.5   29.1   25.2   12.0   0.7   122.7   189.7   0.0   18.8   1.7   0.0   0.0   147.8   526.6   1341.7   1868.3   115.7   27.5   25.1   5.9   0.7   115.5   174.6   0.0   19.8   2.0   0.0   0.0   0.0   151.4   527.1   19.49.2   18.76.3   2009   43.4   102.2   35.2   18.6   4.1   0.4   108.4   166.7   0.0   135.5   2.0   0.0   0.0   148.8   476.6   19.34.6   19.2   12.2   2011   47.8   112.8   38.8   45.9   3.8   0.3   82.9   8166.3   0.0   19.7   1.7   0.0   0.0   153.8   459.2   434.5   434.6   459.4   459.1   42.8   439.1   43.8	1970	105.9	/6.1	12.1	20.3			55.7		0.0	13.4					359.8	" 143.9 B 216.0	B 503.7
1985   94.2   65.1   34.0   12.2   4.4   3.9   54.6   109.1   0.0   11.4   0.0   NA   NA   90.6   370.5   184.2   1954.6   1995   94.2   102.4   35.6   10.0   6.1   1.3   68.2   121.2   0.0   3.2   0.0   0.0   0.0   0.0   138.2   459.1   1307.9   1767.1   2005   58.5   118.9   26.8   25.5   11.1   0.9   115.8   180.1   0.0   20.0   1.4   0.0   0.0   147.8   526.6   1341.7   1868.3   2006   61.7   115.5   29.1   25.2   12.0   0.7   122.7   189.7   0.0   18.8   1.7   0.0   0.0   147.8   526.6   1341.7   1868.3   115.7   27.5   25.1   5.9   0.7   115.5   174.6   0.0   19.8   2.0   0.0   0.0   0.0   151.4   527.1   19.49.2   18.76.3   2009   43.4   102.2   35.2   18.6   4.1   0.4   108.4   166.7   0.0   135.5   2.0   0.0   0.0   148.8   476.6   19.34.6   19.2   12.2   2011   47.8   112.8   38.8   45.9   3.8   0.3   82.9   8166.3   0.0   19.7   1.7   0.0   0.0   153.8   459.2   434.5   434.6   459.4   459.1   42.8   439.1   43.8	1980	76.1	66.4	37.5	27.4	0.5	5.4	61.7	132.5	0.0	9.7			NA NA	96.5	381.2	H 205.3	R 586.5
995 94.2 102.4 35.6 10.0 6.1 1.3 68.2 121.2 0.0 3.2 0.0 0.0 0.0 138.2 459.1 1307.9 1767.1 2000 59.6 107.9 25.8 22.7 4.3 0.5 88.5 141.9 0.0 5.0 0.0 0.0 0.0 0.0 0.0 128.6 443.0 128.7 1767.1 2005 58.5 118.9 26.8 25.5 11.1 0.9 115.8 180.1 0.0 20.0 1.4 0.0 0.0 147.8 526.6 1341.7 1868.2 2006 61.7 115.5 29.1 25.2 12.0 0.7 122.7 189.7 0.0 18.8 1.7 0.0 0.0 147.8 526.6 1341.7 1868.2 2007 63.8 115.7 27.5 25.1 5.9 0.7 115.5 174.6 0.0 19.8 2.0 0.0 0.0 151.4 527.1 135.4 876.3 2008 57.6 114.5 36.0 23.0 4.0 (s) 104.9 168.0 0.0 18.2 2.0 0.0 0.0 157.6 517.8 1360.4 1878.2 2009 43.4 102.2 35.2 18.6 4.1 0.4 108.4 166.7 0.0 13.5 2.0 0.0 0.0 148.8 476.6 135.6 1878.2 2011 47.8 111.2 33.9 145.4 3.8 0.3 82.9 166.3 0.0 19.1 1.9 0.0 0.0 153.6 1850.4 134.5 2011 47.8 111.2 38.8 45.9 3.8 0.0 74.2 162.7 0.0 19.1 1.9 0.0 0.0 148.8 493.5 13.2 2012 29.1 115.8 38.7 46.3 3.5 0.2 87.1 169.9 0.0 17.9 1.5 0.0 0.0 150.8 485.0 1834.6 182.2 2014 26.6 124.9 24.0 24.8 2.6 0.2 76.3 127.8 0.0 19.2 1.5 0.0 0.0 10.0 150.8 485.0 1834.6 182.2 2014 26.6 124.9 24.0 24.8 2.6 0.2 76.3 127.8 0.0 21.5 1.5 0.0 0.0 10.0 150.8 485.0 1834.6 182.2 2014 22.1 124.5 17.6 25.7 2.9 0.2 76.3 127.8 0.0 21.5 1.5 0.0 0.0 10.0 150.8 485.0 1834.6 182.2 1834.6 182.2 1834.6 182.2 1834.6 1	1985	94.2	65.1	34.0	12.2	4.4	3.9	54.6	109.1	0.0	11.4	0.0	NA	NA	90.6	370.5	R 184 2	H 554 7
2006 61.7 115.5 29.1 25.2 12.0 0.7 122.7 189.7 0.0 18.8 1.7 0.0 0.0 149.6 537.1 195.4 189.2 189.2 12007 63.8 115.7 27.5 25.1 5.9 0.7 115.5 174.6 0.0 19.8 2.0 0.0 0.0 151.4 527.1 194.9 186.0 19.8 20.0 0.0 0.0 151.4 527.1 194.9 186.0 20.0 18.2 2.0 0.0 0.0 0.0 157.6 517.8 193.0 187.8 192.0 194.9 195.0	1990						3.4	70.7	127.4		2.2					402.2	H 244.0	H 646.2
2006 61.7 115.5 29.1 25.2 12.0 0.7 122.7 189.7 0.0 18.8 1.7 0.0 0.0 149.6 537.1 195.4 189.2 189.2 12007 63.8 115.7 27.5 25.1 5.9 0.7 115.5 174.6 0.0 19.8 2.0 0.0 0.0 151.4 527.1 194.9 186.0 19.8 20.0 0.0 0.0 151.4 527.1 194.9 186.0 20.0 18.2 2.0 0.0 0.0 0.0 157.6 517.8 193.0 187.8 192.0 194.9 195.0	1995		102.4	35.6				68.2	121.2						138.2	459.1	H 307.9	11 /6/.1 B 7/1 7
2006 61.7 115.5 29.1 25.2 12.0 0.7 122.7 189.7 0.0 18.8 1.7 0.0 0.0 149.6 537.1 195.4 189.2 189.2 12007 63.8 115.7 27.5 25.1 5.9 0.7 115.5 174.6 0.0 19.8 2.0 0.0 0.0 151.4 527.1 194.9 186.0 19.8 20.0 0.0 0.0 151.4 527.1 194.9 186.0 20.0 18.2 2.0 0.0 0.0 0.0 157.6 517.8 193.0 187.8 192.0 194.9 195.0	2005	58.5	118.9	26.8	25.5		0.9	115.8	180.1	0.0	20.0	1.4	0.0	0.0	147.8	526.6	R 341.7	R 868.3
2011 47.8 112.8 38.8 49.9 3.8 0.0 74.2 162.7 0.0 19.7 1.7 0.0 0.0 148.8 499.5 1826.8 1826.2 1821 115.8 32.7 46.3 3.5 0.2 87.1 169.9 0.0 17.9 1.5 0.0 0.0 150.8 485.0 1828.9 841.6 1828.9 1821 115.8 11	2006	61.7	115.5	29.1	25.2	12.0	0.7	122.7	189.7	0.0	18.8	1.7	0.0	0.0	149.6	537.1	R 354.0	R 891.0
2011 47.8 112.8 38.8 49.9 3.8 0.0 74.2 162.7 0.0 19.7 1.7 0.0 0.0 148.8 499.5 1826.8 1826.2 1821 115.8 32.7 46.3 3.5 0.2 87.1 169.9 0.0 17.9 1.5 0.0 0.0 150.8 485.0 1828.9 841.6 1828.9 1821 115.8 11	2007	63.8	115.7	27.5			0.7		174.6	0.0	19.8	2.0	0.0		151.4	527.1	H 349.2	H 876.3
2011 47.8 112.8 38.8 49.9 3.8 0.0 74.2 162.7 0.0 19.7 1.7 0.0 0.0 148.8 499.5 1826.8 1826.2 1821 115.8 32.7 46.3 3.5 0.2 87.1 169.9 0.0 17.9 1.5 0.0 0.0 150.8 485.0 1828.9 841.6 1828.9 1821 115.8 11	2008			36.0	23.0	4.0	(S)	104.9	168.0		18.2	2.0	0.0		15/.6	517.8 476.6	11 360.4 R 225 6	118/8.2 R 912.2
2011 47.8 112.8 38.8 49.9 3.8 0.0 74.2 162.7 0.0 19.7 1.7 0.0 0.0 148.8 499.5 1826.8 1826.2 1821 115.8 32.7 46.3 3.5 0.2 87.1 169.9 0.0 17.9 1.5 0.0 0.0 150.8 485.0 1828.9 841.6 1828.9 1821 115.8 11	2010	50.2	111.2	33.9	R 45.4	3.8	0.4	82.9	R 166.3	0.0	19.1	1.9	0.0		153.6	R 502.4	R 345.2	R 847.6
2012 29.1 115.8 32.7 46.3 3.5 0.2 87.1 169.9 0.0 17.9 1.5 0.0 0.0 150.8 485.0 183.6 1826.3 19.1 19.5 19.5 19.8 19.5 19.5 19.8 26.3 2.7 0.1 81.7 19.5 19.5 19.8 26.3 2.7 0.1 81.7 19.5 19.5 19.5 19.8 26.3 2.7 0.1 81.7 19.5 19.5 19.5 19.8 26.3 2.7 0.1 81.7 19.5 19.5 19.5 19.8 26.3 2.7 0.1 81.7 19.5 19.5 19.5 19.5 19.8 26.3 2.7 0.1 81.7 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	2011	47.8	112.8	38.8	45.9	3.8	0.0	74.2	162.7	0.0	19.7	1.7	0.0	0.0	148.8	493.5		
2017 22.1 124.5 17.6 25.7 2.9 0.2 70.7 116.9 0.0 24.6 1.7 0.0 (s) 97.1 1386.8 120.2 1589.0 2018 19.9 129.6 19.7 28.0 2.9 0.1 875.3 8126.0 0.0 24.8 1.6 0.0 (s) 98.7 8400.5 8201.2 8601.7 2019 18.0 132.7 21.4 28.1 2.8 0.0 76.0 128.4 0.0 24.4 1.9 0.0 (s) 99.5 8404.9 8196.2 8601.1 2020 15.4 812.5 20.3 28.3 2.8 0.0 62.1 113.5 0.0 20.1 2.1 0.0 (s) 94.9 8374.6 8175.6 8502.2 2021 17.4 8134.6 19.4 28.0 2.8 0.1 873.5 8123.8 0.0 22.2 2.2 0.0 (s) 10.3 8400.3 8191.4 8591.7	2012	29.1		32.7	46.3	3.5	0.2		169.9		17.9	1.5	0.0		150.8	485.0	H 341.6	H 826.6
2017 22.1 124.5 17.6 25.7 2.9 0.2 70.7 116.9 0.0 24.6 1.7 0.0 (s) 97.1 1386.8 120.2 1589.0 2018 19.9 129.6 19.7 28.0 2.9 0.1 875.3 8126.0 0.0 24.8 1.6 0.0 (s) 98.7 8400.5 8201.2 8601.7 2019 18.0 132.7 21.4 28.1 2.8 0.0 76.0 128.4 0.0 24.4 1.9 0.0 (s) 99.5 8404.9 8196.2 8601.1 2020 15.4 812.5 20.3 28.3 2.8 0.0 62.1 113.5 0.0 20.1 2.1 0.0 (s) 94.9 8374.6 8175.6 8502.2 2021 17.4 8134.6 19.4 28.0 2.8 0.1 873.5 8123.8 0.0 22.2 2.2 0.0 (s) 10.3 8400.3 8191.4 8591.7	2013		119.5		28.9	3.5	0.2		135.3			1.5	0.0			429.4	P 283.9	713.4 R 657.1
2017 22.1 124.5 17.6 25.7 2.9 0.2 70.7 116.9 0.0 24.6 1.7 0.0 (s) 97.1 1386.8 120.2 1589.0 2018 19.9 129.6 19.7 28.0 2.9 0.1 875.3 8126.0 0.0 24.8 1.6 0.0 (s) 98.7 8400.5 8201.2 8601.7 2019 18.0 132.7 21.4 28.1 2.8 0.0 76.0 128.4 0.0 24.4 1.9 0.0 (s) 99.5 8404.9 8196.2 8601.1 2020 15.4 812.5 20.3 28.3 2.8 0.0 62.1 113.5 0.0 20.1 2.1 0.0 (s) 94.9 8374.6 8175.6 8502.2 2021 17.4 8134.6 19.4 28.0 2.8 0.1 873.5 8123.8 0.0 22.2 2.2 0.0 (s) 10.3 8400.3 8191.4 8591.7	2014				24.8 26.3		0.1		127.8		21.3 21.5	1.5	0.0				R 224 0	R 633 6
2017 22.1 124.5 17.6 25.7 2.9 0.2 70.7 116.9 0.0 24.6 1.7 0.0 (s) 97.1 1386.8 120.2 1589.0 2018 19.9 129.6 19.7 28.0 2.9 0.1 875.3 8126.0 0.0 24.8 1.6 0.0 (s) 98.7 8400.5 8201.2 8601.7 2019 18.0 132.7 21.4 28.1 2.8 0.0 76.0 128.4 0.0 24.4 1.9 0.0 (s) 99.5 8404.9 8196.2 8601.1 2020 15.4 812.5 20.3 28.3 2.8 0.0 62.1 113.5 0.0 20.1 2.1 0.0 (s) 94.9 8374.6 8175.6 8502.2 2021 17.4 8134.6 19.4 28.0 2.8 0.1 873.5 8123.8 0.0 22.2 2.2 0.0 (s) 10.3 8400.3 8191.4 8591.7	2016	20.5	124.4	19.6	23.3	2.8	(s)	87.4	133.2	0.0	22.0	1.7	0.0		96.3	398.0	R 208.8	R 606.8
2019 18.0 132.7 21.4 28.1 2.8 0.0 76.0 128.4 0.0 24.4 1.9 0.0 (s) 99.5 404.9 4962.6 4601.1 2020 15.4 42.5 20.3 28.3 2.8 0.0 62.1 113.5 0.0 20.1 2.1 0.0 (s) 94.9 49.4 404.9 49.5 450.2 2021 17.4 8134.6 19.4 28.0 2.8 0.1 873.5 8123.8 0.0 22.2 2.2 0.0 (s) 100.3 8190.4 8191.4 8991.7	2017				25.7	2.9	0.2	70.7	H 116.9		24.6	1.7	0.0	(s)	97.1	R 386.8	R 202.2	R 589.0
2020 15.4 H128.5 20.3 28.3 2.8 0.0 62.1 113.5 0.0 20.1 2.1 0.0 (s) 94.9 H374.6 H175.6 H550.2 2021 17.4 H134.6 19.4 28.0 2.8 0.1 H73.5 H123.8 0.0 22.2 2.2 0.0 (s) 100.3 H400.3 H191.4 H591.7	2018	19.9	129.6	19.7	28.0	2.9	0.1	75.3	n 126.0	0.0	24.8	1.6	0.0	(s)	98.7	D 400.5	P 201.2	D 601.7
2021 17.4 134.6 19.4 28.0 2.8 0.1 17.5 123.8 0.0 22.2 2.2 0.0 (s) 100.3 1400.3 1191.4 1591.7	2019	18.0	R 128 5	20.3					128.4		24.4	1.9	0.0		99.5	R 374 6	R 175.6	R 550 2
2022 20.7 141.3 19.6 29.3 2.9 0.1 57.4 109.4 0.0 28.8 2.0 0.0 (s) 98.3 400.5 188.7 589.2	2021	17.4	<sup>rt</sup> 134.6	19.4	28.0	2.8	0.1	R 73.5	R 123.8	0.0	22.2	2.2	0.0	(s)	) 100.3	R 400.3	R 191.4	R 591.7
	2022	20.7	141.3	19.6	29.3	2.9	0.1	57.4	109.4	0.0	28.8	2.0	0.0	(s)	98.3	400.5	188.7	589.2

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Kentucky

						Po	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>ç</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
1960	64	19	652	2.549	34	497	405	20.715	35	24,886	0			
1965	64 16	19 28	652 1,052	2,549 2,725	34 36 54	1,284	409	20,715 25,082	35 42	30,630	0			
1970 1975	7	36 24	330	4,891	54	3,089 2,150	368	33,109	145	41,986	0			
1975	(s)	24 21	129 112	6,215 12,795	66 13	2,150 2,897	530 518	40,346 39,490	2 136	49,437 55,961	0			
1985	Ō	14	66 51	13.546	98 65 47	3,434 5,713	471 531	38,704 41,748	0	56,319 64,555	0			
1990	0	25 25	51	16,449	65	5,713	531	41,748	0	64,555	0			
1995 2000	0	25 14	44	19,086	47	6,305 6,651	506 541	46,894	0	72,882 78,610	0			
2005	0	8	32 70	23,286 25,444	56 92	6,651 8,284	456	48,045 51,716	3	78,610 86,065	0			
2006	Ö	7	65 64	26 569	115	7,105	444	51,548 52,941	Ō	85,845	Ō			
2007	0	12	64	27,584 23,785 21,932	92	7,979	459	52,941	0	89,118	0			
2008 2009	0	13 13	48 41	23,785	139 89	7,425 9,844	426 383	51,103 52,442	0	82,926 84,731	0			
2010	0	14	34	22,913	16	9,880	470	52,442	6	85.523	0			
2011	Ö	12	34 32 30	22,913 23,591 22,276	19	10,352	449	52,202 50,473	Ö	85,523 84,916	Ŏ			
2012	0	9	30	22,276	16	10,270	404	49.871	0	82.868	0			
2013 2014	0	7	26 30	22,051 23,211	18 20	10,660	417 435	49,835 49,568	0	83,007 83,920	0			
2014	0	11	30	23,211	20 27	10,656 11,115	435 469	50,556	0	84 818	0			
2016	0	6	31	22,200 22,178	34	11,709	R 442	51,758	0	84,818 R 86,174 R 87,191	0			
2017	Ö	7	31 35	22,178	17	12,999	R 442 R 407	51,758 51,555	0	R 87,191	Ö			
2018	0	14	36 43	23,679	13	14,255	R 397 R 371	51.670	0	n 90.049	0			
2019	0	19 24		22,243	15 10	13,614 13,213	''3/1	51,567 46,110	0	R 87,852	0			
2020 2021	0	30	40 41	20,942 R 21,721	11	14,667	336 R 354	49,608	0	80,651 R 86,761	0			
2022	Ö	26	43	22,249	20	15,389	377	49,476	0	87,928	0			
							Tr	illion Btu						
1960	1.6	19.6	3.3	14.8	0.1	2.7	2.5	108.8	0.2	132.4	0.0	153.6	0.0	153.6
1965	0.4	28.4	5.3 1.7	15.9	0.1	7.2 17.4	2.5	131.8	0.3	163.0	0.0 0.0	191.8	0.0	191.8
1970 1975	0.2 (s)	28.4 36.3 23.7	0.6	15.9 28.5 36.2	0.2 0.3	17. <del>4</del> 12.1	2.5 2.2 3.2	173.9 211.9	0.9 (s)	163.0 224.8 264.4	0.0	261.3 288.1	0.0 0.0	261.3 288.1
1980	0.0	21.1	0.6	74.5	(s)	16.3	3.1	207.4	0.9	302.9	0.0	324 0	0.0	324 0
1980 1985	0.0	14.7	0.3	74.5 78.9	(s) 0.4	16.3 19.3	3.1 2.9	203.3	0.0	302.9 305.1	0.0	323.4	0.0	323.4
1990	0.0	25.6	0.3 0.2 0.2	95.8	0.2 0.2 0.2	32.3 35.7	3.2	219.3	0.0	351.2	0.0	379.6	0.0	379.6
1995 2000	0.0 0.0	27.4 14.5	0.2	111.1 135.5	0.2	35.7 37.7	3.1 3.3	244.0 249.9	0.0 0.0	394.3 426.7	0.0 0.0	421.8 441.2	0.0 0.0	421.8 441.2
2005	0.0	8.5	0.4	148.0	0.4	47.0	28	268.5	(s)	467.0	0.0	475.8	0.0	475.8
2006	0.0	6.7	0.3	154.2	0.4	40.3	2.7 2.8	267.3	(s) 0.0	467.0 465.2 480.5 443.9	0.0	472.8	0.0	472 8
2007	0.0	12.2 13.4	0.3	159.5	0.4	45.2	2.8	272.2	0.0	480.5	0.0	493.9	0.0	493.9
2008 2009	0.0	13.4	0.2	137.5	0.5	42.1	2.6	260.9	0.0 0.0	443.9	0.0	458.4	0.0	458.4
2009	0.0 0.0	13.0 14.1	0.2 0.2	126.7 132.3	0.3 0.1	55.8 56.0	2.3 2.9	266.9 264.5	0.0 (s)	452.3 456.0	0.0 0.0	465.3 470.1	0.0 0.0	465.3 470.1
2011	0.0	12.8	0.2	136.1	0.1	58.7	2.7	255.5	0.0	453.3	0.0	466.1	0.0	466.1
2012 2013	0.0 0.0	8.9 7.4	0.2	128.5 127.1	0.1	58.2 60.4	2.5 2.5	252.4 252.2	0.0	441.8 442.4	0.0 0.0	450.7	0.0	450.7 449.8
2013	0.0	7.4	0.1	127.1	0.1	60.4	2.5	252.2	0.0	442.4	0.0	449.8	0.0	449.8
2014 2015	0.0 0.0	9.6 11.7	0.2 0.2 0.2 0.2	133.8 130.3	0.1 0.1	60.4 63.0	2.6 2.8 2.7 2.5	250.8 255.7 261.6	0.0 0.0	447.8 452 1	0.0 0.0	457.4 463.9	0.0 0.0	457.4 463.9
2016	0.0	5.8	0.2	127.8	0.1	63.0 66.4	2.7	261.6	0.0	452.1 458.8	0.0	464.6	0.0	463.9 464.6
2017	0.0	5.8 7.8	0.2	127.7	0.1	73.7	2.5	260.5	0.0	464.6	0.0	472.4	0.0	472.4
2018	0.0	14.9	0.2	136.4	(s)	80.8	2.4 R 2.3	261.1	0.0	481.0	0.0	495.9	0.0	495.9
2019 2020	0.0 0.0	20.2 24.9	0.2 0.2	128.1 120.5	0.1	77.2 74.9	7 2.3 2.0	260.5 232.9	0.0 0.0	468.3 430.7	0.0 0.0	488.5 455.6	0.0 0.0	488.5 455.6
2021 2022	0.0 0.0 0.0	24.9 31.8	0.2	120.5 R 125.2 128.3	(s) (s) 0.1	83.2	2.0 2.1	252.9 250.5		430.7 R 463.2 469.9	0.0	R 495 0	0.0	R 495.0
2022	0.0	31.8 27.2	0.2 0.2	128.3	0.1	83.2 87.3	2.1 2.3	250.5 249.8	0.0 0.0	469.9	0.0 0.0	R 495.0 497.2	0.0 0.0	R 495.0 497.2

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Kentucky

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	7,466 12,210	2	(s)	0	9	10	0	2,633		0	NA	NA	0	
1960 1965 1970	12,210	2 (s) 9	(s) (s)	0	14	14	0	2,464 3,174		0	NA	NA	0	
1970	18,698	9	4	0	121	124	0	3,174		0	NA	NA	0	
1975 1980	22,366 24,383	(s) 2	7	0	100	108 227	0	3,463 2,940		0	NA	NA	0	
1985	27,085	1	227 270	0	0	270	0	2,940		0	NA 0	NA 0	0	
1900	30,867	(e)	210	0	0	210	0	3,160		0	0	0	0	
1990 1995	35,707	(s)	212 282	0	0	212 282	0	3.423		ő	ő	0	0	
2000	40.180	4	309	Ö	Ö	309	Ŏ	2,325 2,961		Ŏ	Ŏ	Ŏ	Ö	
2000 2005	40,180 40,352	17	309 230	7,146	0	309 7,376	0	2,961		0	0	0	(s)	
2006	41.938	12	193	6,562	0	6 755	0	2.592		0	0	0	Ò	
2007	41,064	19	242 255	5,323	0	5,566 5,730	0	1,669		0	0	0	0	
2008	42,191	10	255	5,475	0	5,730	0	1,917		0	0	0	0	
2009 2010	39,271 41,891	8 19	281	3,754 4,149	0	4,035 4,378	0	3,318 2,580		0	0	0	0	
2010	42,543	16	281 230 249	3,149	0	3,289	0	2,969		0	0	0	0	
2012	38,978	31	226	3,040 2,710	0	2,937	0	2,362		0	0	0	0	
2013	39,475	15	226 222 244	2,497	Ö	2,718	Õ	3,275		Ö	Ö	Ŏ	Ŏ	
2014	39.214	15 27	244	2,006	Ö	2,250	Ö	3,144		Ö	Ö	Ö	Ö	
2015 2016	34,381 32,071	52 66	244	1,843	0	2,087	0	3,403		0	0	0	0	
2016	32,071	66	212	2,194	0	2,406	0	3,478		0	12	0	0	
2017	27,671	81	191	831	0	1,022	0	4,506		0	20	0	2	
2018	28,567	113	180 169	0	0	180 169	0	4,418 4,232		0	39 45	0	6	
2019	25,168 20,809	112 103	166	0	0	166	0	4,232 5,005		0	45 43	0	0	
2020	23,805	103	150	0	0	100	0	4,876		0	46	0	0	
2020 2021 2022	22,589	108 136	158 212	37	ő	158 249	ŏ	4,530		ŏ	44	ő	ő	
							Trillion Btu							
1960 1965	171.5 279.5	2.4 0.5	(s) (s)	0.0	0.1	0.1	0.0	R 9.0	0.0	0.0	NA	NA	0.0 0.0	R 182.9
1965	279.5	0.5	(s)	0.0	0.1	0.1	0.0	R 8.4	0.0	0.0	NA	NA	0.0	R 288.5
1970	408.6	8.7	(s)	0.0 0.0	0.8 0.6	0.8	0.0	R 10.8 R 11.8	0.0	0.0	NA	NA	0.0	R 428.9 R 493.2
1975	480.4	0.3	(s) (s) 1.3	0.0	0.6	0.7	0.0	P 10.0	0.0	0.0 0.0	NA	NA NA	0.0	H 493.2
1980	558.8 616.7	1.9 1.1	1.6	0.0 0.0	0.0 0.0	1.3 1.6	0.0 0.0	H 10 0	0.0 0.0	0.0	NA 0.0	0.0	0.0 0.0	R 572.1 R 629.5
1985 1990 1995	712.8		1.2	0.0	0.0	1.2	0.0	R 10.8 R 11.7 R 7.9	0.0	0.0	0.0	0.0	0.0	R 725 1
1995	831.9	0.3 0.9	1.6	0.0	0.0	1.6	0.0	R 11.7	0.0	0.0	0.0	0.0	0.0 0.0	R 846.1
2000	933.0 920.9 958.5	4.3 17.7	1.8	0.0	0.0	1.8	0.0	_R 7.9	0.0	0.0	0.0	0.0	0.0	R 725.1 R 846.1 R 947.0
2005	920.9	17.7	1.3 1.1	40.9 37.5	0.0	42.2	0.0	R 10.1 R 8.8	0.8	0.0	0.0	0.0	(s) 0.0	R 1,019.7 R 1,019.7 R 1,012.3 R 1,016.2
2006	958.5	12.6		37.5	0.0	38.6	0.0	H 8.8	1.1	0.0	0.0	0.0	0.0	H 1,019.7
2007 2008	953.7 965.7	19.9 9.8	1.4	30.4 31.3	0.0 0.0	31.8 32.8	0.0 0.0	R 5.7 R 6.5	1.1	0.0	0.0 0.0	0.0 0.0	0.0 0.0	H 1,012.3
2008	965./	9.8 8.6	1.5 1.6	31.3	0.0	32.8	0.0 0.0	<sup>n</sup> 6.5 R 11.3	1.3	0.0	0.0	0.0	0.0 0.0	'' 1,016.2 Book o
2009 2010	892.4 958.4	8.6 19.7	1.6	21.5 23.7	0.0 0.0	23.1 25.1	0.0	" 11.3 R 8 8	0.8 0.6	0.0 0.0	0.0 0.0	0.0 0.0	0.0	R 1 012 6
2010	956.4 961.6	15.9	1.4	23.7 17.4	0.0	18.8	0.0	R 8.8 R 10.1	0.6	0.0	0.0	0.0	0.0	R 936.2 R 1,012.6 R 1,007.1
2012	879.8	31.9	1.3	15.5	0.0	16.8	0.0	R 8 1	1.2	0.0	0.0	0.0	0.0	R 937 7
2012 2013	879.8 886.6	31.9 15.0	1.3 1.3	15.5 14.3	0.0	16.8 15.6	0.0 0.0	R 8.1 R 11.2	1.2	0.0	0.0	0.0 0.0	0.0 0.0	R 937.7 R 929.5
2014	886.4	27.7	1.4	11.5	0.0	12.9	0.0	H 10 7	1.1	0.0	0.0	0.0	0.0	R 938.8 R 847.4 R 811.2
2015	769.7	53.0 68.5	1.4	10.5 12.5	0.0	11.9	0.0	n 11 6	1.1	0.0	0.0	0.0	0.0	H 847.4
2016	715.8	68.5	1.2	12.5	0.0	13.8	0.0	R 11.9	1.2	0.0	R (s) R 0.1	0.0	0.0	H 811.2
2017 2018	616.9 635.9	84.9 117.7	1.1	4.8 0.0	0.0 0.0	5.9	0.0 0.0	R 15.4	1.4	0.0	H 0.1 R 0.1	0.0 0.0	(s) (s)	R 724.5 R 771.2
2018	556.3	117.7 117.9	1.0 1.0	0.0	0.0	1.0 1.0	0.0	R 15.1 R 14.4	1.3 1.2	0.0 0.0	"U.1 Roa	0.0	(s) 0.0	R 691.1
2019	466.8	107.6	1.0	0.0	0.0	1.0	0.0	R 17.1	1.2	0.0	R 0.2 R 0.1	0.0	0.0	R 59/1.1
2021	531.0	112.6	0.9	0.0	0.0	0.9	0.0	R 16.6	1.4	0.0	R 0.2	0.0	0.0	R 662 6
2022	502.5	141.2	1.2	0.2	0.0	1.4	0.0	15.5	1.3	0.0	0.2	0.0	0.0	R 594.0 R 662.6 662.0
	00L.0	171.2	1.2	V.L	0.0	17	0.0	10.0	1.0	0.0	V.E	0.0	0.0	

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Louisiana

						Petroleum								
						i cirolcum					Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	eléctric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthours	s	Thousan	id barrels
								24.22						
1960 1965	0 (s) 0	970 1.110	10,710 8.357	21,646 31,150	3,207 6.097	22,550 27.404	8,769 7,889	21,897 41.780	88,779 122,677	0	0	0 0	NA NA	NA NA
1965 1970	\o	1,110 1,841	8,357 11,799	31,150 47,555 49,128	6,097 5,879	27,404 34,850 35,858	7,889 11,118	41,780 65,024	122,677 176,224	0	0	0	NA	NA
1971 1972	0	1,884 1,940	13,395 17,821	49,128 59,395	5,917 5,841	35,858 38,974	8,036 8,659	68,597 74,879	180,931 205,568	0	0	0 0	NA NA	NA NA
1973	ő	2.010	21 079	62 182	5 881	41 112	20.812	80 697	231 763	ő	ő	Ő	NA	NA
1974 1975	0	2,008	21,652 21,502	62,104 55,654	7,888 6,082	41,354 43,192	28,453	81,095 76,033	242,545 230,872	0	0	0	NA	NA NA
1975	0	1,789 2,044	21,502	55,654 53 907	5,126	43,192 46,286	28,410 39,047	76,033 94 488	260,872	0	0	0	NA NA	NA NA
1977	79	2,191	29.781	53,907 53,666	5.437	46,286 48,322	54.033	94,488 108,310	299,549	Ö	ŏ	Ö	NA	NA NA
1978 1979	172 118	2,249 1,978	31,035 31,509	54,505 74,619	5,595 7,356	50,064 49,078	53,986 60,431	117,046 128,476	312,231 351,467	0	0	0	NA NA	NA NA
1979	111	1,978	22 579	74,619	7,356 8,644	47 157	64 084	133,093	345 640	0	0	0	NA NA	NA NA
1981	1,363 3,724	1,794 1,782 1,556 1,413 1,594	37,923 30,871	70,083 90,362 102,718	7,812	48,933 50,411	55,459 46,714	110,915	351,404 329,383	Ö	Ö	Ö	0	NA
1982	3,724	1,556	30,871 31,116	102,718	8,195	50,411	46,714	90,475	329,383	0	0	0	0	NA NA
1983 1984	6,154 6,855	1,413	26,617	93,02 <i>1</i> 81.731	10,935 12,705	50,471 50,391	37,223 30,062	85,206 82,169	307,978 283,675	0	0	0	55	NA NA
1985 1986	9,217	1,386	26.702	87,860	12.803	49,302 49,922	24.717	78,920 92,842	280,304 292,730	2,457	Ö	Ō	232	NA
1986 1987	10,459 10,391	1,386 1,439 1,501	28,408 26,662	93,027 81,731 87,860 77,204 72,860	17,838 18,874	49,922 48,217	26,518 24,093	92,842	292,730 286,809	10,637 12,324	0	0	730 616	NA NA
1988 1989	12,848	1,446	28,710	/0.19/	21.424	48,817	26,675	96,104 105,071	300,896	13,785	0	0	194	NA NA
1989	12,471	1,446 1,556	29.154	67.915	21,424 22,321	46.885	25,853	105.637	297,765 304,516 312,517	12.391	0	Ō	152	NA
1990 1991	12,547 12,965	1,588 1,525	30,065 28,302	68,616 76,755	25,879 32,179	43,967 43,005	22,982 25,944	113,008 106,333	304,516	14,197 13,956	656 656	0	92 171	NA NA
1992	13,674	1,551	25,578	81,460	26,950	45,117	29,916	120,429	329,450	10,356	656	0	222	NA
1992 1993	13,674 13,676	1,551 1,579	25,578 30,603	81,460 83,667	26,950 25,124	45,117 46,073	29,916 27,523	120,429 121,565	329,450 334,556 358,274	10,356 14,398	656 1,232	Ō	222 220	NA
1994 1995	14,100 13,357	1,586 1,679 1,616	34,835 36,584	96,155 95,476	32,225 28,853	45,627 47,247	24,193 23,059	125,239 118,943	358,274 350,162	12,779 15,686	972 952	0	311 186	NA NA
1996	12.534	1,616	42,641	96.590	29.030	50 871	26.543	129,047	374.722	15.765	964	0	45	NA NA
1997 1998	13,874	1,661 1,569 1,495 1,537	43 942	75,040 70,984	30,472 28,670	46,918 50,105	21,535 21,955	129,047 143,876 135,668	361,782 348,208	13,511	1,036	0	19	NA
1998	13,891	1,569 1,495	40,826 36,166	70,984 104.361	28,670 34,016	50,105 49.717	21,955 22 123	135,668 134,812	348,208 381 195	16,428 13,112	1,063	0	16 39	NA NA
1999 2000	13,953 15,737	1,537	36,166 38,779	104,361 134,321	34,016 35,399	54,489	22,123 29,246	134,812 136,130	381,195 428,363	15.796	802 532	Ö	39 7	NA
2001	14,934 14,676	1,312	42.485	90.676	34.460	53,482	13,596 11,749	1/2 000	377.607	17,336 17,305	732	0	(s) 898	8
2002 2003	14,676 15,592	1,312 1,431 1,311	41,229 33,611	91,377 55,685	37,678 38,124	55,065 57,453	11,749 14,218	146,021 164,217	383,119 363,307	17,305 16,126	891 892	0	898 1,144	13
2004 2005	16,059	1,350 1,314	33,189	55,685 61,703 57,298	35,840	50,105 49,717 54,489 53,482 55,065 57,453 55,756 56,846	15,277 16,322	146,021 164,217 182,912 173,797	384,677	17,080 15,676	1,099	Ő	1,159	10 21 70
2005	15,856	1,314	34,060	57,298	28,255	56,846	16,322	173,797	366,578	15,676	811	0	48	70
2006 2007	16,410 15,524	1,297 1,384 1,324 1,278	36,107 32,670	64,371 63,211	23,264 22,416	63,493 57,866	16,961 15,841	191,982 204,178	396,178 396,182	16,735 17,078	713 827	0	45 141	202 275
2008	16.409	1,324	32.520	117,382	19.474	51,529 55,092	17.110	191,989 153,510	430,005	15.371	1.064	ŏ	1.188	236
2009	15,736	1,278	37,134	139,222	16,073	55,092	15,873	153,510	416,905 B 000,070	16,782	1,236	0	3,142	236 250 202
2010 2011	16,240 16,792	1,448 1,508 1,563 1,479 1,507	43,076 46,682	63,211 117,382 139,222 R 103,492 R 108,580 R 125,919 R 132,921 R 126,864 R 137,965	4,025 4,046	54,887 54 507	17,243 17,737 14,301	167,250 159,693 140,589	430,005 416,905 R 389,972 R 391,245 R 373,643 R 369,895 R 357,722 R 366,064	18,639 16,615	1,109 1,044 680	0	5,825 5,632	202 688
2012	14,893	1,563	46,682 35,800	R 125,919	4,046 4,136	54,507 52,899	14,301	140,589	R 373,643	15.659	680	ŏ	5.299	688 646
2013 2014	13,934 12,821	1,479	33,785 33,360	H 132,921	3,662	54,766 53,868	11,688 6,766	133,072	H 369,895	16,954 17,311	1,045 1,090	0	5,641 5,596	1,112
2015	11.016	1,507	36,128	R 137.965	3,662 3,959 3,992	56.042	4,398	140,589 133,072 132,905 127,540 R 128,880 R 137,940 R 132,433 R 127,977 R 116,550 R 113,748	R 366.064	15.301	999	0	5.839	1,112 839 1,076
2016 2017	8,834 8,638	16/8	33 323	R 133,319 R 144,495 R 145,903 R 157,802	3.797	54,158 52,263	5 990	R 128,880	R 359,466 R 383,526 R 369,463 R 377,498 R 412,080	17,152 15,410	1,103 906	Ö	5,612	1 487
2017 2018	8,638	1,679	31,847 31,214	H 144,495	3,883 3,919	52,263	13,098 4,101	H 137,940	H 383,526	15,410 17,153	906	0	5,440	1,218 _ 1,241
2018	8,356 5,492	1,825 1,922 R 1,882	31,214 31,957	R 157.802	4,205	51,893 52,642	2,915	R 127.977	R 377,498	13,981	1,180 1,366	0	5,099 5,006	R 1.146
2020	2.962	R 1,882	29 972	<sup>n</sup> 212.825	4,205 2,475	46.478	3.779	R 116,550	R 412,080	16.950	1.204	Õ	4.273	1,128 R <sub>839</sub>
2021 2022	5,847 5,628	R 1,826 2,035	R 32,309 32,756	R 217,778 200,728	2,826 3,614	51,981 50,647	6,692 6,857	H 113,748 94,748	R 425,333 389,351	17,249 16,165	1,109 916	0	4,986 5,276	H 839 755
2022	5,026	2,035	32,730	200,720	3,014	50,047	0,007	34,140	303,351	10,100	310	U	5,276	155

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Louisiana (trillion Btu)

					Fossil	fuels						Fossil fuels	
						Petroleum						(as commingled)	1
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL b	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	0.0	1,003.8	62.4	82.0	17.4	118.5	55.1	131.6	466.9	1,470.7	1,003.8	62.4	118.5
1965 1970	(s) 0.0	1,003.8 1,156.4	62.4 48.7	118.1	33.8	118.5 144.0	49.6	242.9	637.0	1,793.5 2,794.6	1,003.8 1,156.4 1,894.2	48.7	144.0
1970	0.0	1.894.2	68.7	174.2	32.6	183.1	69.9	371.9	900.3	2,794.6	1,894.2	<i>68.7</i>	183.1
1971	0.0	1,938.6	78.0	179.3	32.8	188.4 204.7	50.5	393.1	922.1	2,860.6	1,938.6 1,996.0	78.0	188.4
1972	0.0 0.0	1,996.0 2,072.2	103.8 122.8	215.6	32.4	204.7	54.4 130.8	429.7 464.1	1,040.7	3,036.7 3,264.2	1,996.0	103.8 122.8	204.7
1973 1974	0.0	2,068.6	126.1	225.6 226.8	32.7 44.1	216.0 217.2	178.9	465.7	1,192.0 1,258.8	3,327.4	2,072.2 2,068.6	126.1	216.0 217.2
1975	0.0	1,854.8	125.1	202.6	33.9	226.9	178.6	437.9	1,236.6	3,059.9	1,854.8	125.7	226.9
1976 1977	0.0	2,121.4	125.2 128.6 173.5	191.7	28.5	226.9 243.1 253.8	245.5	541.4	1,205.1 1,378.8 1,605.9	3,500.1	2.121.4	125.2 128.6 173.5	226.9 243.1 253.8
1977	1.8	2.274.1	173.5	191.7 187.0	30.2	253.8	245.5 339.7	621.6	1,605.9	3.881.7	2,121.4 2,274.1	173.5	253.8
1978 1979	3.7	2,349.7 2,051.4	180.8 183.5	188.9 275.8	31.2	263.0 257.8	339.4 379.9	673.1 737.2	1,676.3 1,875.5 1,859.6	4,029.8 3,929.4	2,349.7 2,051.4	180.8 183.5	263.0 257.8
1979	2.5	2,051.4	183.5	275.8	41.2	257.8	379.9	737.2	1,875.5	3,929.4	2,051.4	183.5	257.8
1980	2.5	1,862.2	131.5	266.7	48.4	247.7	402.9	762.4	1,859.6	3,724.3	1,862.2	131.5	247.7
1981 1982	23.7 64.3	1,847.6 1,629.2	220.9 179.8	334.0 371.0	43.7 45.8	257.0 264.8	348.7 293.7	639.2 525.2	1,843.6 1,680.3	3,714.9 3,373.8	1,847.6 1,629.2	220.9 179.8	257.0 264.8
1902	106.7	1,472.3	181.3	371.0	61.4	204.0 265.1	234.0	323.2 495.1	1,000.3	3,139.5	1,029.2	179.0	204.0 265.1
1983 1984	119.1	1,661.3	155.0	323.5 302.2	71.4	265.1 264.7	189.0	495.1 477.0	1 459 4	3,239.7	1,472.3 1,661.3	181.3 155.0	265.1 264.7
1985	159.1	1 441 8	155.5	322.3	72.0	259.0	155.4	462.3	1,560.4 1,459.4 1,426.5 1,523.9 1,502.3	3 027 4	1 441 8	155.5	259.0
1986 1987	171.9	1,496.1 1,560.7	155.5 165.5 155.3	288.3 278.3	100.5	259.0 262.2 253.3	166.7	540.7 557.5	1,523.9	3,192.0 3,235.4	1,496.1 1,560.7	155.5 165.5 155.3	259.0 262.2 253.3
1987	172.4	1,560.7	155.3	278.3	106.3	253.3	151.5	557.5	1,502.3	3,235.4	1,560.7	155.3	253.3
1988 1989	212.1	1,506.4 1,622.9	167.2 169.8	266.2 259.9	120.7 125.8	256.4 246.3	167.7	608.7 608.6	1,587.1 1,573.0	3,305.6 3,403.6	1,506.4 1,622.9	167.2 169.8	256.4 246.3
1989	207.7	1,622.9	169.8	259.9	125.8	246.3	162.5	608.6	1,5/3.0	3,403.6	1,622.9	169.8	246.3
1990 1991	208.9 214.2	1,654.7 1,596.8	175.1 164.9	262.1 293.9	146.1 181.9	231.0 225.9 237.0	144.5 163.1	653.0 617.0	1,611.7 1,646.7	3,475.3 3,457.7	1,654.7 1,596.8	175.1 164.9	231.0 225.9
1991	223.5	1,619.5	149.0	314.3	152.3	223.9 237.0	188.1	695.1	1 705 0	3,578.8	1,619.5	149.0	225.9 237.0
1993	223.5	1,637.0	178.3	320.9	142.0	239.6	173.0	705.2	1 759 0	3,619.5	1,613.0	178.3	240.4
1994	230.9	1.649.0	202 7	368.0	182.6	239.6 236.8	152.1	723 7	1,735.8 1,759.0 1,866.0 1,819.0 1,955.6 1,929.7 1,850.6 1,972.5	3 745 9	1,637.0 1,649.0	178.3 202.7	240.4 237.9
1995 1996	216.8	1.737.3	212.9 248.2	364.3	163.6	245.2 264.9	145.0	688.0 742.7	1,819.0	3,773.1 3,848.6	1,737.3 1,687.6	212.9 248.2	245.9 265.1
1996	205.4	1,687.6	248.2	368.3	164.6	264.9	166.9	742.7	1,955.6	3,848.6	1,687.6	248.2	265.1
1997	226.1 225.3	1,857.1 1,679.0 1,558.3	255.7 237.6	292.2 274.2 394.9	172.8 162.6	244.1 260.6 258.5	135.4	829.4 777.6	1,929.7	4,012.8 3,754.9 3,758.5	1,857.1 1,679.0 1,558.3	255.7 237.6	244.2 260.7 258.6
1998	225.3	1,679.0	237.6	274.2	162.6	260.6	138.0	777.6	1,850.6	3,754.9	1,679.0	237.6	260.7
1999 2000	227.7 253.3	1,625.9	210.5 225.7	488.8	192.9 200.7	258.5	139.1 183.9	776.7	1,972.5	4,045.3	1,625.9	210.5 225.7	258.6
2000	240.0	1,347.2	247.2	329.8	195.4	283.4 278.2	85.5	783.7 829.9	1 965 9	3,553.2	1.347.2	247.2	283.4 278.2
2002	232.1	1.475.5	239.9	326.6	213.6	283.2	73.9	848.9	1.986.0	3.693.6	1,475.5	239.9	286.3
2003	248.0	1,353.2	195.6	204.1 223.7	216.2	283.2 294.6	89.4	955.1	1,972.5 2,166.2 1,965.9 1,986.0 1,955.0 2,065.9 1,975.6 2,127.3 2,131.0 2,193.3	3,556.1	1,475.5 1,353.2 1,393.1	239.9 195.6	298.6
2004	256.7	1.393.1	193.1	223.7	203.2	285.7 295.0	96.0	1 064 1	2,065.9	3.715.8	1,393.1	193.1	289 T
2005	253.5	1,367.5	198.2	206.9	160.2	295.0	102.6	1,012.7 1,122.9	1,975.6	3,596.6	1,367.5	198.2	295.1
2006	265.2	1,346.7	209.5	227.3	131.9	329.1 297.1	106.6	1,122.9	2,127.3	3,739.2	1,346.7	209.5	329.2 297.5
2007 2008	249.8 262.5	1,430.6 1,369.8	189.0 188.0	223.2 403.1	127.1 110.4	297.1 259.0	99.6 107.6	1,195.1	2,131.0	3,811.4 3,825.6	1,430.6 1,369.8	189.0 188.0	297.5 263.1
2008	252.5	1,309.0	212.8	403.1	91.1	259.0	99.8	1,195.1 1,195.3 902.3 983.4 938.9	2,193.3	3,0∠3.0 3,610.8	1,309.0	100.U 211.5	203.1 280.1
2010	259.8	1,315.3 1,482.9	212.8 247.4	467.4 R 340.8	22.8	269.5 257.9	108.4	983.4	2,043.0 R 1,960.8 R 1,948.7	3,610.8 R 3,703.5 R 3,754.4	1,315.3 1,483.2	214.5 248.8	280.4 278.1
2011	270.0	1.535.7	265.7	H 353 2	22.9	256.4	111.5	938.9	R 1,948.7	R 3,754.4	1.536.1	269.4	276.0
2012	238.8	1,585.9 1,505.0	203.5	R 410 2	23.4	249.4 257.5	89.9	828.7	R 1,805.1 R 1,761.5	R 3,629.8	1,586.4 1,505.5	206.5	267.8
2013	228.1	1,505.0	189.3	H 437.6	20.8	257.5	73.5	828.7 782.9	R 1,761.5	R 3,629.8 R 3,494.6 R 3,454.9 R 3,484.0	1,505.5	194 7	277.1
2014	210.0	1,547.2 1,594.2	187.2 201.8	H 409.6	22.4	253.1 263.1	42.5	782.8	R 1,697.7 R 1,715.5	H 3,454.9	1,547.7 1,594.7	192.3 208.2	272.5 283.4
2015	174.2	1,594.2	201.8	R 449.3	22.6	263.1	27.6	751.0 R 772.0 R 825.1 R 793.2	1,715.5	<sup>n</sup> 3,484.0	1,594.7	208.2	283.4
2016 2017	140.5 142.3	1,718.3 1,716.4	184.0 176.4	R 430.1 R 462.6	21.5 22.0	254.3	37.7 82.3	11 / /2.0 R 005 1	11,699.6 R 1 012 7	R 3,558.4 R 3,672.4	1,/18.8	191.8 183.3	273.8 264.1
2017	137.8	1,716.4	176.4	H 460 5	22.0 22.2	254.3 245.2 244.5	82.3 25.8	025.1 R 703.2	R 1,699.6 R 1,813.7 R 1,729.1		1,718.8 1,716.4 1,865.4	179.8	264.1 262.3
2019	90.7	1,003.4	178 1	R 500.6	23.8	248.5	18.3	R 767 0	R 1 736 5	R 3 791 1	1,963.9	184 0	265.9
2019 2020	48.7	1,963.9 R 1,922.0	166.0	R 655.0	14.0	248.5 220.0	23.8	R 767.0 R 697.2	R 1,736.5 R 1,776.0	R 3,791.1 R 3,746.7	1,963.9 R 1,922.0	172.5	265.9 234.8
2021 2022	95.9	<sup>H</sup> 1,862.3	<sup>H</sup> 183.4	<sup>H</sup> 674.7	16.0	245.2 237.3	42.1 43.1	R 680.7 572.2	R 1,839.5 1,655.1	3,797.7	H 1,862.3	172.5 R 186.2	262.5 255.7
2022	96.9	2,073.7	186.1	598.3	20.5	237.3	43.1	572.2	1,655.1	3,825.7	2,073.7	188.8	255.7

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Louisiana (continued) (trillion Btu)

Nuclear electric power   Hydro-electric power e.f   Wood and waste f.g   Fuel ethanol h   Biodiesel   Renewable diesel   Renewable diesel   Total f   Total f   Sol	Solar f.j         Wind         Total f           NA         NA         35           NA         NA         41           NA         NA         41           NA         NA         41           NA         NA         44           NA         NA         48           NA         NA         45           NA         NA         44           NA         NA         44           NA         NA         44	3 R -21.7 6 R -36.5 9 R -45.9 8 R -41.3	0.0 F 0.0 F 0.0 F 0.0 F	Total <sup>f</sup> R 1,486.8 R 1,810.1 R 2,799.7 R 2,856.7
Year         electric power         eléctric power e.f.         Wood and waste i.g         Fuel ethanol h         Biodiesel         Renewable diesel         and co-products i         Total f         Geothermal f         Sol           1960         0.0         0.0         39.0         NA         NA         NA         NA         39.0         0.0           1965         0.0         0.0         38.3         NA         NA         NA         NA         NA         38.3         0.0           1970         0.0         0.0         41.6         NA         NA         NA         NA         NA         41.6         0.0           1971         0.0         0.0         41.9         NA         NA         NA         NA         NA         44.8         0.0           1972         0.0         0.0         44.8         NA         NA         NA         NA         NA         44.8         0.0	NA NA 35 NA NA 41 NA NA 41 NA NA 41 NA NA 44 NA NA 45 NA NA 44	interstate flow of electricity k 0 R -22.9 3 R -21.7 6 R -36.5 9 R -45.9	net imports   1	R 1 486 8
1970	NA NA 3E NA NA 41 NA NA 41 NA NA 44 NA NA 45 NA NA 44	.3 H -21.7 .6 R -36.5 .0 R -45.0	0.0 F 0.0 F 0.0 F	R 1,486.8 R 1,810.1
1970	NA NA 41 NA NA 44 NA NA 44 NA NA 45 NA NA 46	3	0.0 0.0 0.0 F	፫ 1,810.1
1971	NA NA 41 NA NA 44 NA NA 45 NA NA 45	9 R -45.9 8 R -41.3 7 R -35.5	0.0 E	H 2 700 7
1972	NA NA 45 NA NA 44	.8 H -41.3 .7 R -35.5		R 2,856.7
	NA NA 44	./	0.0 F 0.0 F	R 3,040.2 R 3,274.5
1973 0.0 0.0 44.9 NA NA NA 44.9 0.0		9 R -13.2	0.0 F	R 3.359.1
1975 0.0 0.0 42.4 NA NA NA NA 42.4 0.0	NA NA 42	.4 H-38.6	0.0 F	R 3,359.1 R 3,063.6
1976 0.0 0.0 45.2 NA NA NA NA 45.2 0.0 1977 0.0 0.0 46.7 NA NA NA NA 46.7 0.0	NA NA 45 NA NA 46	.2 n -52.6 7 R -29.1	0.0 F 0.0 F	R 3,492.7
1978 0.0 0.0 47.8 NA NA NA NA 47.8 0.0	NA NA 47	.8 R -29.6	0.0 0.0 F	R 3,492.7 R 3,900.3 R 4,048.0
1979 0.0 0.0 44.7 NA NA NA NA 44.7 0.0	NA NA 44	.7 R 22.6	0.0 F	R 3,996.7
1980	NA NA 64 NA NA 68	.7 <sup>17</sup> 70.3	0.0 F 0.0 F	R 3,996.7 R 3,859.3 R 3,911.5
1982 0.0 0.0 69.7 0.0 NA NA 0.0 69.7 0.0	NA NA 69	.7 R 133.7	00 H	H 3 577 1
1983 0.0 0.0 74.7 0.0 NA NA 0.0 74.7 0.0	NA 0.0 74	.7 R 155.4	0.0	R 3,369.5 R 3,513.9 R 3,286.8
1984 0.0 0.0 78.6 0.2 NA NA 0.0 78.8 0.0 1985 26.1 0.0 78.5 0.8 NA NA 0.0 79.3 0.0	0.0 0.0 78 0.0 0.0 79	.8 '' 195.3 3 R 153.0	0.0 F 0.0 F	R 3 286 8
1986 112.5 0.0 99.8 2.5 NA NA 0.0 102.3 0.0	0.0 0.0 102	.3 P 40.8	00 H	H 3 447 7
1987 128.7 0.0 100.1 2.1 NA NA 0.0 102.2 0.0 1988 146.2 0.0 103.9 0.7 NA NA 0.0 104.6 0.0	0.0 0.0 102	.2 H 54.0	00 H	H 3 520 2
1989 1311 00 1291 05 NA NA 00 1296 01	0.0 0.0 104 0.1 0.0 129	g R <sub>47</sub> g	0.0 F 0.0 F	R 3,564.3 R 3,712.3
1990 150.2 R2.2 118.2 0.3 NA NA 0.0 118.5 0.1	0.1 0.0 R 1.20	a R_466	0.0 <u>F</u>	R 3,699.9 R 3,703.9 R 3,813.3
1991 146.3 H2.2 120.5 0.6 NA NA 0.0 121.0 0.1 1992 108.4 R2.2 123.8 0.8 NA NA 0.0 124.6 0.1	0.1 0.0 11.23	.5 H -23.6	0.0 H	H 3,703.9
1993 151.2 R4.2 124.6 0.8 NA NA 0.0 125.3 0.1	0.1 0.0 R 127 0.1 0.0 R 129	.0 -1.0 8 R -24.7	0.0 F 0.0 F	R 3 875 8
1994 133.6 <sup>R</sup> 3.3 136.9 1.1 NA NA 0.0 138.0 0.2	0.1 0.0 R 141	8 R -24.7 6 R -6.8	0.0 E	R 3,875.8 R 4,014.2
1995 164.8 R 3.2 141.4 0.6 NA NA 0.0 142.1 0.3 1996 165.6 R 3.3 142.1 0.2 NA NA 0.0 142.3 0.3	0.1 0.0 R 145 0.1 0.0 R 145	.7 R -25.1 .9 R 67.9	0.0 F	R 4,058.5 R 4,228.0
1997 141.8 <sup>R</sup> 3.5 138.7 0.1 NA NA 0.0 138.7 0.3	0.1 0.0 11.42	6 H222	0.0 H 0.0 F	R 4,228.0
1998 1723 R36 1362 0.1 NA NA 0.0 1362 0.4	0.1 0.0 H 140	3 R-267	0.0 F	R 4,319.4 R 4,040.9
1999 137.0 R 2.7 139.6 0.1 NA NA 0.0 139.7 0.5 2000 164.7 R 1.8 136.4 (s) NA NA 0.0 136.4 0.5	0.1 0.0 R 143 0.1 0.0 R 138	.0 R -17.4 .7 R -21.7	0.0 F 0.0 F	R 4,021.2 R 4,327.1
2000 164.7 R 1.8 136.4 (s) NA NA 0.0 136.4 0.5 2001 181.0 R 2.5 128.0 (s) (s) NA 0.0 128.0 0.5 2002 180.7 R 3.0 131.3 3.1 0.1 NA 0.0 134.5 0.5	0.1 0.0 R 1.31	.7 R -46.6	0.0 F	R 3.818.7
2002 180.7 H3.0 131.3 3.1 0.1 NA 0.0 134.5 0.5	0.1 0.0 H 138	1 R -59.8	0.0 E	R 3,818.7 R 3,952.6 R 3,804.2
2003 168.1 R 3.0 138.8 4.0 0.1 NA 0.0 142.8 0.7 2004 178.1 R 3.7 173.8 4.0 0.1 NA 0.0 177.9 0.8	0.1 0.0 R 146 0.1 0.0 R 182	.6 H -66.6	0.0 F 0.0 F	R 3,804.2 R 4,005.1
2005 163.6 R2.8 142.2 0.2 0.4 NA 0.0 142.8 0.9	0.1 0.0 H 146	.5 R -57.0	00 H	H 3 849 7
2006 174.6 R 2.4 141.3 0.2 1.1 NA (s) 142.6 1.0 2007 179.1 R 2.8 140.6 0.5 1.5 NA (s) 142.6 1.1	0.1 0.0 R 146	1 R-46.6 1 R-59.8 6 R-66.6 5 R-71.2 1 R-38.1 6 R138.6	nn H	H / 1021 B
2006     174.6     B 2.4     141.3     0.2     1.1     NA     (s)     142.6     1.0       2007     179.1     B 2.8     140.6     0.5     1.5     NA     (s)     142.6     1.1       2008     160.7     B 3.6     97.4     4.1     1.3     NA     0.1     102.9     1.3	0.1 0.0 H 146 0.1 0.0 R 107	.6 H 138.6	0.0	n 4,275.8
2009 175.5 R 4.2 93.3 10.9 1.3 NA 0.1 105.6 1.5	0.1 0.0 R 1.11	4 H 123 6	0.0 F	R 4.021.4
2010 194.8 <sup>H</sup> 3.8 100.5 20.2 1.1 NA 0.1 121.8 1.7	0.1 0.0 H 127	4 R 86.9	0.0 F	R 4,112.6
2011 173.9 R 3.6 99.6 19.5 3.7 0.0 0.1 122.9 1.9 2012 164.1 R 2.3 100.2 18.4 3.5 0.0 0.1 122.2 1.8	R 0.1 0.0 R 128 R 0.2 0.0 R 126	E H 76 4	0.0 F 0.0 F	H 4,125.2
2013 177.2 <sup>R</sup> 3.6 113.5 19.6 6.0 0.0 0.1 139.1 1.8	R 0.3 0.0 R 144	.8 H 88.8	0.0 F	R 3.905.3
2014 181.1 <sup>R</sup> 3.7 136.1 19.4 4.5 0.0 0.1 160.1 1.8	H 0.4 0.0 H 166	1 1120.3	0.0 F	H 4,215.4 H 4,021.4 H 4,112.6 H 4,125.2 H 3,996.8 H 3,905.3 H 3,922.3
2015 160.0 R 3.4 119.6 20.3 5.8 0.0 0.0 145.6 1.8 2016 179.4 R 3.8 134.9 19.5 8.0 0.0 0.0 162.3 1.8	R 0.6 0.0 R 151 R 0.7 0.0 R 168	5 R 100.7 7 R 105.8 1 R 191.6 .9 R 156.3 7 R 178.7		
2017 161.2 R3.1 124.0 18.9 6.5 0.0 0.0 149.4 1.8	H 0.8 0.0 H 155	.1 R 191.6	0.0 F	R 4,012.2 R 4,180.3 R 4,220.9
2018 1793 RAO 1218 178 66 00 00 1462 18	Rna nn R150	.9 R 156.3	0.0 F	R 4,220.9
2019 146.0 R 4.7 110.7 17.4 6.1 0.0 0.0 134.3 1.8 2020 177.1 R 4.1 R 108.8 14.9 6.0 0.0 0.0 R 129.7 1.8	R 0.9 0.0 R 141 R 1.1 0.0 R 132	.7 H 178.7	0.0 F 0.0 F	R 4,257.5 R 4,177.6
2020 177.1 194.1 100.6 14.9 0.0 0.0 0.0 129.7 1.6 2021 19.79.9 19.8 107.5 17.3 4.5 0.0 0.0 129.4 1.8	R 1.5 0.0 R 136	7 R 117.1 5 R 142.3	0.0 F	R 4,256.4
2022 168.6 3.1 104.4 18.4 4.0 0.0 0.0 126.8 1.8	1.7 0.0 133	.5 118.2	0.0	4,246.0

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Louisiana

						Petroleum					Bion	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
960	0	850	10,688	21,646	3,207	22,550	8,733	21,897	88,721	0					9,859			
970	0	1,509	11,741	47,555	5,879	34,850	11,020	65,024	176,068	0					29,401			
980	111	1,369	21,405	70,083	8,644	47,157	56,989	133,093	337,370	0					52,877			
90 00	799 57	1,302 1,232	29,906 38,438	68,616 134,321	25,879 35,399	43,967 54,489	22,907 28,537	112,883 133,359	304,157 424,543	0					63,826 80,690			
05	66	1,029	33,916	57,298	28,255	56,846	13,284	170,486	360.085	0					77,389			
06	73	1,101	36,058	64,371	23,264	63,493	16,586	188,664	392,436	0					77,468			
07	71	1,159	32,606	63,211	22,416	57,866	15,371	200,557	392,028	0					79,567			
80	72	1,087	32,451	117,382	19,474	51,529	16,648	188,579	426,063	0					78,726			
09	14	1,056	37,058	139,222	16,073	55,092	15,813	150,677	413,936	0					78,670			
10 11	22 79	1,178 1,214	43,020 46,630	R 103,492 R 108,580	4,025 4,046	54,887 54,507	17,102 17,706	161,824 151,360	R 384,351 R 382,829	0					85,080 86,369			
2	147	1,214	35,745	R 125,919	4,046	52,899	14,298	135,208	R 368,205	0					84,731			
3	146	1,211	33,717	R 132,921	3,662	54,766	11,683	124,630	R 361,378	0					85,808			
4	189	1,242	33,279	R 126,864	3,959	53,868	6,764	123,992	R 348,725	0					90,628			
5	239	1,213	36,015	R 137,965	3,992	56,042	4,386	120,085	R 358,484	0					91,676			
6	267	1,348	33,293	R 133,319	3,797	54,158	5,990	R 120,022	R 350,578	0					91,453			
7	241	1,400	31,802	R 144,495	3,883	52,263	13,098	R 129,365	R 374,906	0					91,206			
8	245	1,524	31,173	R 145,903 R 157,802	3,919	51,893	4,101	R 124,306 R 121,722	R 361,295 R 371,195	0					94,186			
9 0	205 219	1,580 R 1,527	31,908 29,958	R 212,825	4,205 2,475	52,642 46,478	2,915 3,779	R 109,939	R 405,455	0					93,129 89,127			
1	292	R 1,509	R 32,282	R 217,778	2,826	51,981	6,692	R 106,228	R 417,786	0					90,819			
22	332	1,670	32,723	200,728	3,614	50,647	6,857	88,722	383,292	0					95,139			
									Trillion	Btu								
60	0.0	879.8	62.3	82.0	17.4	118.5	54.9	131.6	466.6	0.0	39.0	NA	NA	NA	33.6	1,419.0	R 67.8	R <sub>1</sub>
70	0.0	1,552.9	68.4	174.2	32.6	183.1	69.3	371.9	899.4	0.0	41.6	NA	NA	NA	100.3	2,594.2	R 205.5	R <sub>2</sub>
30	2.5	1,419.8	124.7	266.7	48.4	247.7	358.3	762.4	1,808.2	0.0	64.7		NA	NA	180.4	3,475.5	R 383.8	Rg
0	16.0	1,356.1	174.2	262.1	146.1	231.0	144.0	652.2	1,609.6	0.0	116.8		0.1	0.1	217.8		R 383.2	R
5	1.4	1,310.6	223.7	488.8	200.7	283.4	179.4	767.0	2,143.1	0.0	135.3		0.5 0.9	0.1	275.3 264.1	3,866.2	R 460.9 R 430.8	R R
;	1.6 1.8	1,074.0 1,143.4	197.3 209.2	206.9 227.3	160.2 131.9	295.1 329.2	83.5 104.3	993.8 1,103.9	1,936.9 2,105.9	0.0	141.1 140.3	0.0 (s)	1.0	0.1 0.1	264.1 264.3	3,419.0 3,657.9	R 363.9	R
,	1.7	1,143.4	188.6	223.2	127.1	297.5	96.6	1,174.4	2,105.9	0.0	139.4		1.0	0.1	204.3 271.5	3,721.6	R 554.2	R
	1.7	1,125.8	187.6	403.1	110.4	263.1	104.7	1,105.8	2,174.6	0.0	96.3		1.3	0.1	268.6		R 545.7	R
	0.3	1,086.1	214.1	467.4	91.1	280.4	99.4	886.1	2,038.6	0.0	92.1	0.1	1.5	0.1	268.4	3,487.3	R 534.5	R
)	0.5	1,206.4	248.4	R 340.8	22.8	278.1	107.5	952.4	R 1,950.1	0.0	99.2		1.7	_ 0.1	290.3	R 3,548.2	R 564.6	R
	1.3	1,236.6	269.1	R 353.2	22.9	276.0	111.3	891.3	R 1,923.7	0.0	98.5		1.9	R 0.1	294.7	R 3,556.5	R 568.6	R
1	2.3	1,258.0	206.1	R 410.2	23.4	267.8	89.9	797.9	R 1,795.4	0.0	99.3		1.8	R <sub>0.2</sub> R <sub>0.3</sub>	289.1	R 3,445.7	R 550.7	R
	2.3 2.9	1,232.2 1,274.7	194.3 191.8	R 437.6 R 409.6	20.8 22.4	277.1 272.5	73.5 42.5	734.6 731.8	R 1,737.9 R 1,670.7	0.0	112.3 134.7		1.8 1.8	R 0.4	292.8 309.2	R 3,379.2 R 3,394.2	R 525.6 R 528.6	R R
	3.7	1,242.3	207.5	R 449.3	22.4	283.4	42.5 27.6	731.8	R 1.698.8	0.0	118.1	0.0	1.8	R 0.6	312.8	R 3,377.8	R 518.9	R
	4.1	1,378.0	191.7	R 430.1	21.5	273.8	37.7	R 721.3	R 1,676.0	0.0	133.5			R 0.7	312.0	R 3,505.9	R 506.1	R
	3.8	1,429.3	183.1	R 462.6	22.0	264.1	82.3	R 776.1	R 1,790.2	0.0	122.5		1.8	R 0.8	311.2	R 3,659.7	R 521.0	R
1	4.0	1,556.5	179.5	R 469.5	22.2	262.3	25.8	R 746.7	R 1,706.0	0.0	120.4		1.8	R 0.9	321.4	R 3,710.9	R 509.1	R
9	3.2	1,611.8	183.8	R 500.6	23.8	265.9	18.3	R 731.2	R 1,723.8	0.0	109.3	0.0	1.8	R <sub>0.9</sub>	317.8	R 3,768.7	R 488.6	R,
0	3.3	R 1,556.6	172.4	R 655.0	14.0	234.8	23.8	R 659.4	R 1,759.5	0.0	R 107.8	0.0	1.8	R 1.0	304.1	R 3,734.1	R 443.9	R
11	4.4	R 1,536.7	R 186.1	R 674.7	16.0	262.5	42.1	R 637.7	R 1,819.1	0.0	R 106.2		1.8	R 1.0		R 3,779.0	R 478.3	R,
22	5.0	1,700.4	188.7	598.3	20.5	255.7	43.1	537.7	1,644.0	0.0	103.1	0.0	1.8	1.0	324.6	3,779.9	467.2	4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Louisiana

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	0	56	11	1 325	7	1,344				3.014			
1965	Ŏ	56 61	6	1,325 1,826	14	1,846				3,014 5,161			
1970	Ö	86	6	2,292	20	2.318				9.334			
1970 1975	0	96	10	1,765	21	1,796				11,923			
1980	1	73	5	970	0	976				16.832			
1985	0	61	6	836	18	860				20,168 21,434			
1990	0	53 53 50	6	655	13	674				21,434			
1995	1	53		530	9	540				24,116			
2000	0	50	1	1,900	26	1,927				27,719			
2005 2006	0	41	5 6	829 850	8 8	841 864				28,654 28,113			
2006	(s)	33 37 37	5	535	6	546				28,878			
2007	(8)	37	59	628	3	690				20,070			
2000	0	37	25	817	2	845				28,848 29,747 32,679			
2009 2010	0	37 46	25 3	728	2	734				32 679			
2011	ő	39	ĭ	695	1	697				32,019			
2012	Ö	32	1	446	(s)	447				30.027			
2012 2013	0	32 39	2	446 463	(s)	465				30,027 30,709			
2014	0	45 37 31	2	545	(s)	548				31,401 31,545			
2015	0	37	6	465 437	(s)	472				31,545			
2016	0	31	7	437	(s)	444				30 650			
2017	0	29 38 36	8	442	(s)	450				29,532 32,066 30,986			
2018	0	38	1	455 503		457 509				32,066			
2019	0	36	5	503	(s)	509				30,986			
2020 2021	0	32 36	6 3	518 548	(s)	524 552				30,441 30,408			
2021	0	35	3	442	(s) (s)	445				31,445			
2022	0	33	3	442	(5)	443	Trillion Btu			01,440			
1960	0.0	57.8	0.1	5.1	(s) 0.1	5.2 7.1	9.1	NA	NA	10.3	82.3	R 20.7 R 34.6 R 65.2 R 83.1 R 122.2 R 139.8 R 128.7 R 158.3 R 159.5 R 132.1 R 201.1	R 103.0
1965	0.0	63.6	(s) (s)	7.0	0.1	7.1	6.1	NA	NA	17.6	94.4	H 34.6	H 129.1
1970 1975	0.0	63.6 88.6 99.3	(s)	8.8	0.1	8.9	4.4	NA	NA	31.8	133.8	n 65.2	H 103.0 H 129.1 H 199.1 H 235.1 H 262.7 H 281.8 H 265.6 H 299.7 H 317.3
19/5	0.0	99.3	0.1	6.8	0.1	7.0	5.1	NA	NA	40.7	152.0	" 83.1 B 400.0	11 235.1 B 000.7
1980 1985	(s) 0.0	75.8 63.0	(s) (s)	3.7 3.2	0.0 0.1	3.8 3.3	3.6 6.8	NA NA	NA NA	57.4 68.8	140.6 142.0	R 122.2	R 202.7
1990	0.0	63.U 55.6	(8)	3.2	0.1	3.3	0.0 E 4		0.1	00.0 72.1	137.0	H 109.0	H 201.0
1995	(s)	55.6 54.3	(s) (s)	2.5 2.0	0.1	2.0	5.4 7.8	0.1 0.1	0.1	73.1 82.3	146.7	R 153.0	R 200.0
2000	0.0	52.9	(s)	7.3	0.1	2.6 2.1 7.5	3.8	0.2	0.1	94.6	159.0	R 158.3	R 317 3
2005	0.0	52.9 43.0	(s)	3.2	(s)	3.3	1.5	0.4	0.1	97.8	145.9	R 159.5	
2006	0.0	34.7	(s) (s) (s) (s) 0.3	3.3	(s)	3.3	1.3	0.4	0.1	95.9	135.8	R 132 1	R 267.9
2006 2007	(s)	34.7 38.4	(s)	3.3 2.1	(s)	3.3 2.1	1.3 1.5	0.5	0.1	95.9 98.5	135.8 141.2	R 201.1	R 267.9 R 342.3
2008	(s) 0.0	38.6	0.3	2.4	(s)	28	16	0.6	0.1	98.4	142.1	R 200.0	H 342 1
2009	0.0	37.6	0.1	3.1	(s)	3.3 2.8	2.4 2.5	0.8	0.1	101.5	145.6	<sup>R</sup> 202.1	R 347.7 R 381.3
2010	0.0	46.6	(s)	2.8	(s)	2.8	2.5	0.9	_ 0.1	111.5	164.5	R 216.9	R 381.3
2011 2012	0.0	40.1 32.3 39.5	(s) (s)	2.7 1.7	(s)	2.7 1.7	2.5 2.0	0.9	R 0.1 R 0.2	109.2 102.5 104.8	155.5 R 139.6 R 150.0	H 210.8	R 366.3 R 334.7 R 338.1
2012	0.0	32.3	(s)	1.7	(s)	1.7	2.0	0.9	n 0.2	102.5	n 139.6	n 195.1	n 334.7
2013	0.0	39.5	(s)	1.8	(s)	1.8	2.7	0.9	R 0.3	104.8	n 150.0	n 188.1	n 338.1
2014 2015	0.0	45.7 37.7	(s) (s) (s)	2.1	(S)	2.1 1.8	2.7 R 0.7	0.9 0.9	R 0.4	107.1 107.6	'' 159.0 B 140.5	'' 183.1 B 470.6	" 342.1 B 200.2
2015	0.0	3/./	(S)	1.8	(S)	1.8	''0./		R 0.6 R 0.7 R 0.7	107.6	R 159.0 R 149.5 R 140.5 R 134.3	11/8.6 B 100.6	R 342.1 R 328.0 R 310.2
2016 2017	0.0 0.0	32.1 29.7	(s) (s)	1.7 1.7	(8)	1.7 1.7	0.5 0.4	0.9 0.9	R 0.7	104.6 100.8	T40.5	H 169.6	R 202 0
2017	0.0	29.7 38.6	(S) (S)	1.7	(8)	1.7	0.4	0.9	R 0.8	100.6	R 152.1	R 172 2	R 225 5
2019	0.0	36.7	(s)	1.7	(s)	2.0	0.6	0.9	Rna	105.7	R 146.7	R 162 6	R 200 3
2020	0.0	30.7	(6)	2.0	(s)	2.0	R 0.0	0.9	R n a	103.7	R 140.7	R 151 6	R 292 5
2020 2021	0.0	32.7 R 36.9	(s) (s) (s)	2.0 2.1	(s)	2.0 2.0 2.1	R 0.4 R 0.4	0.9 0.9	R 0.9 R 0.9 1.0	103.9 103.8	R 140.8 R 145.1	R 202.1 R 216.9 R 210.8 R 195.1 R 188.1 R 183.1 R 169.6 R 168.7 R 173.3 R 162.6 R 151.6 R 160.2	R 300.2 R 303.0 R 325.5 R 309.3 R 292.5 R 305.2
		36.1		1.7	(s)	1.7	0.5	0.9		107.3	147.6		

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Louisiana

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>	WI		Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use f,j	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	0	23	1,604	518	156	259	304	2,841	NA			NA	2,493			
1965 1970	0	23 70	815	714 896	305 445	299 381	206 502	2,339 3,062	NA NA			NA NA	4,890 8,427			
1970	0	70 51	838 1,458	690	445 467	465	1,830	4 910	NA NA			NA NA	8,427 9,225			
1980	3	40	399	379	549	168	13.466	14,961 3,850 1,375	NA			NA	12,809			
1985 1990	0	30 25	2,647 741	327 256	65 21	235 318	575 40	3,850 1,375	NA 0			NA 0	16,548 16,528			
1995	4	24	257	207	6	41	0	512	Ö			Ō	18,016			
2000 2005	0	26 25	337 354	743 327	8 38	2,166 1,057	0 54	3,253 1,830	0			0	21,018 21,692			
2006	ŏ	22	346	251	29 7	43	0	670	ŏ			ŏ	21,979			
2007 2008	(s)	22 24 23	612 583	222 258	7 5	2,800 43	0	3,640 888	0			0	22,887 22,940			
2009	0	24	1,465 957	277	2	43	0	1.787	0			0	23,301			
2010	0	27	957	250	2	43	0	1,252	0			(s)	24,203			
2011 2012	0	26 26	990 886	251 217	1	43 43	0	1,284 1,147	0			(s) 2	24,281 24,245		 	
2013	Ö	26 29	423	225	1	44 42	Ö	694 807	Ö			3	24,254			
2014 2015	0	31 30	515 547	247 205	3	42 780	0	807 1,532	0 0			4 6	24,493 24,996			
2016	0	29	547 644	263	2	791	0	1,699	0			7	24,896			
2017 2018	0	28	625 591	346	1	803 816	0	1,775 1,696	0			8 15	24,500 24,691			
2018	0	35 33	591 561	288 365	1	816 823	0	1,696	0			16	24,691			
2020	0	30	675	395	(s)	824	0	1 894	0			19	22,399			
2021 2022	0	33 32	R 605 627	366 362	1	832 867	0	R 1,804 1,857	0			18 19	22,460 23,540	 		
	•						· ·	,	llion Btu							
1960	0.0	24.3	9.3	2.0	0.9	1.4	1.9	15.5	NA	0.2	NA	NA	8.5	48.5	R 17.2	R 65.6
1965 1970	0.0	23.5	4.7	2.7	1.7	1.6	1.9 1.3 3.2	12.1	NA	0.1	NA	NA	16.7	52.4	R 32.8 R 58.9	R 85.2 R 176.1
1970 1975	0.0 0.0	72.4 52.3	4.9 8.5	3.4 2.6	2.5 2.6	2.0 2.4	3.2 11.5	16.0 27.7	NA NA	0.1 0.1	NA NA	NA NA	28.8 31.5	117.2 111.6	R 64.3	P 176.1 R 175.8
1980	0.1	41.5	2.3	1.5	3.1	0.9	84.7	92.4	NA	0.1	NA	NA	43.7	177.8	R 93 0	H 270.7
1985 1990	0.0 0.0	31.4 26.0	15.4 4.3	1.3 1.0	0.4 0.1	1.2 1.7	3.6 0.2	21.9 7.3	NA 0.0	0.2 0.6	NA 0.0	NA 0.0	56.5 56.4	109.9 90.3	R 114.7 R 99.2	R 224.6
1995	0.0	24.6	1.5	0.8	(s)	0.2	0.2	2.5	0.0	1.1	0.0	0.0	61.5	89.9	R 114.3 R 120.0	R 189.5 R 204.2 R 236.1
2000	0.0	27.3	2.0	2.9	(s) (s) 0.2	11.3	0.0	16.1	0.0	0.6	0.2	0.0	71.7	116.0	R 120.0	R 236.1
2005 2006	0.0 0.0	26.2 23.1	2.1 2.0	1.3 1.0	0.2	5.5 0.2	0.3 0.0	9.4 3.4	0.0 0.0	0.2	0.5 0.5	0.0 0.0	74.0 75.0	110.3 102.2	R 120.7 R 103.3	R 231.0 R 205.4
2007	(s)	24.7	3.5	0.9	(s)	14.4	0.0	18.8	0.0	0.2 0.2	0.5	0.0	78.1	122.4	R 103.3 R 159.4 R 159.0 R 158.3 R 160.6	R 205.4 R 281.8
2008 2009	0.0 0.0	23.7 24.4	3.4 8.5	1.0 1.1	(s) (s)	0.2 0.2	0.0 0.0	4.6 9.8	0.0 0.0	0.2 0.3	0.6 0.7	0.0 0.0	78.3 79.5	107.4 114.6	H 159.0 R 159.3	R 266.4 R 272.9 R 278.7
2010	0.0	27.7	5.5	1.0	(s)	0.2	0.0	6.7	0.0	0.3	0.7	(s)	82.6	118.0	R 160.6	R 278.7
2011 2012	0.0	26.4 26.7	5.7	1.0	(s)	0.2 0.2	0.0	6.9	0.0	0.3 0.3	1.0	(s)	82.8 82.7	117.4	R 159.9 R 157.6 R 148.6	R 277.3 R 274.2 R 265.4
2012	0.0 0.0	29.4	5.1 2.4	0.8 0.9	(s) (s)	0.2	0.0 0.0	6.2 3.5	0.0 0.0	0.3	0.9 0.9	(S)	82.7 82.8	116.7 R 116.8	R 148.6	R 265.4
2014	0.0	32.1	3.0	0.9	(s)	0.2	0.0	4.1	0.0	0.3	0.9	(s)	83.6	121 0	R 142.9 R 141.5	H 263 8
2015 2016	0.0 0.0	31.0 29.6	3.2 3.7	0.8 1.0	(s) (s)	3.9 4.0	0.0 0.0	7.9 8.7	0.0 0.0	0.1 0.1	0.9 0.9	R (s) R (s)	85.3 84.9	R 125.1 124.2	H 137 g	R 266.6 R 262.0
2017	0.0	28.9	3.6	1.3	(s)	4.1	0.0	9.0	0.0	0.1	0.9	R (s) R (s)	83.6	122.5	R 140.0	R 262.4 R 262.9
2018 2019	0.0 0.0	35.6 33.6	3.4 3.2	1.1 1.4	(s) (s)	4.1 4.2	0.0 0.0	8.6 8.8	0.0 0.0	0.1 0.1	0.9 0.9	0.1 0.1	84.2 82.9	129.5 R 126.2	R 140.0 R 133.5 R 127.4	R 262.9 R 253.6
2019 2020 2021	0.0	30.3	3.9	1.5	(S)	4.2 4.2 4.2	0.0	9.6	0.0	0.1	0.9	R 0.1	76.4	H 117.3	H 111.6	R 228.9 R 238.2
2021	0.0	33.2	3.5	1.4	(s)	4.2	0.0	9.1	0.0	0.1	0.9	R 0.1	76.6	H 119.9	H 118.3	R 238.2
2022	0.0	32.4	3.6	1.4	(s)	4.4	0.0	9.4	0.0	0.1	0.9	0.1	80.3	123.1	115.6	238.7

a Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Louisiana

		J	Petroleum					Bior	nass								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	0	739 797	3,383 3,129	19,606	562 548	485 353	20,187	44,222	0				NA	4,326			
1965 1970	0	797 1,281	3,129 4,241	28,451 44,017	548 302	353 819	39,744 63,573	72,225 112,952	0				NA NA				
1975	0	1,224	6,391	52,893	173	4,046	74,723	138,226	0				NA NA				
1980	107	1,182	8,543	68,575	62	12.363	131,568	221,112	0				NA	23.233			
1985 1990	457 799	968 1,168	6,748 9,143	86,587 67,631	486 337	6,806 1,131	78,010 112,002	178,637 190,244	0				NA 0	23,952 25,862			
1995	422	1,213	11,348	94,678	771	382	115,109	222,288	0				0	30,692			
2000	57	1,106	11,517	131,671	607	1,368	132,489	277,651	0				0	31,950			
2005 2006	66 73	921 998	6,080 5.072	56,073 63,220	1,410 1,398	2,773 3,201	169,747 187,948	236,084 260,839	0				0	27,031 27,373			
2007	73	1,046	5,072	62,415	1,643	590	199,881	269,611	0				0	27,799			
2008	72	973	5,645	116.420	675	2,051	187,913	312 703	Ö				Ö	26.932			
2009 2010	14 22	946 1,058	8,754 11,333	138,074 R 102,504	660 1,062	1,631 3,101	150,079 161,081	299,198 R 279,081	0				0	25,613 28,187			
2010	79	1,036	11.959	R 107.624	1,139	4.441	150,603	R 275,766 R 271,147	0				0	30,058			
2012	147	1,133	8,888	R 125.248	1,084	1,371	150,603 134,557	R 271,147	Ō				Ō	30,449			
2013 2014	146 189	1,107 1,116	7,183 7,317	R 132,222 R 126,059	1,161 779	428 333	123,947 123,355	R 264,942 R 257,843	0				0	30,833 34,723			
2015	239	1,110	5,139	R 137,280	741	337	119 397	R 262,894	0		==	==	0	35,123			==
2016	267	1,203	4,713	R 132,602	762	798	R 119.424	R 258,299	0				0	35,895			
2017 2018	241 245	1,242 1,318	4,774 5,546	R 143,629 R 145,101	769 780	613 606	R 128,784 R 123,811	R 278,569 R 275,843	0				0 (s)	37,161 37,417			
2018	205	1 346	5,546 4,401	H 156.874	780 775	483	R 121,204	H 283.737	0				(S)	37,417			
2020	219	R 1.284	2,205	R 211.832	785	239	R 109,420	R 324,480	Ö				(s)	36,276			
2021 2022	292 332	R 1,215 1,322	4,865 4.917	R 216,815 199,856	781 825	583 598	R 105,234 87,761	R 328,278 293,957	0				(s)	37,942 40,144			
2022	302	1,022	4,517	199,030	023	390	07,701	293,937	Trillion Bt				(s)	40,144			
1960	0.0	764.9	19.7	74.0	3.0	2.0	122.2	222.0		29.8	NA	NA	NA	14.8	1 001 5	R 29.8	B 1 001 0
1960	0.0	830.0	18.2	74.2 107.7	2.9	3.0 2.2	231.8	362.8	0.0 0.0		NA NA	NA NA	NA NA		1,031.5 1,245.1	R 39.6	R 1,061.2 R 1,284.7
1970	0.0	1,318.4	24.7	160.6	1.6	5.1	363.7	555.7	0.0	37.2	NA	NA	NA	39.7	1,951.0	HQ12	R 2.032.4
1975 1980	0.0 2.4	1,263.1 1,225.4	37.2 49.8	192.0 260.9	0.9 0.3	25.4 77.7	430.4 753.7	686.0 1,142.3	0.0 0.0	37.1 61.1	NA NA	NA NA	NA NA		2,037.3 2,510.5	R 104.3 R 168.6	R 2,141.6 R 2,679.1
1985	11.0	1,005.1	39.3	317.4	2.6	42.8	457.0	859.0	0.0	71.5	0.0	NA NA	NA NA		2,028.4	R 166 1	R 2,194.5
1990	16.0	1,216.4	53.3	258.3	1.8	7.1	647.0	967.5	0.0	110.8	0.0	0.0	0.0	88.2	2,398.9	R 155 3	R 2.554.2
1995 2000	7.7 1.4	1,252.9 1,176.4	66.0 67.0	361.3 478.7	4.0	2.4 8.6	665.0 761.9	1,098.7	0.0	131.3 130.9	0.0 0.0	0.0 (s)	0.0		2,595.4 2,737.0	R 194.7 R 182.5	R 2,790.1 R 2,919.5
2005	1.6	961.2	35.4	202.2	3.2 7.3	17.4	989.4	1,319.3 1,251.7	0.0	139.4	0.0	(S)	0.0	92.2	2,737.0	R 150 5	R 2.596.6
2006	1.8	1,035.8	29.4	222.9	7.3	20.1	1,099.7	1,379.4	0.0	138.8	(s)	(s)	0.0	93.4	2,649.1	R 128.6 R 193.6	R 2.777.7
2007 2008	1.7 1.7	1,081.7 1,008.2	29.4 32.6	220.1 399.4	8.5 3.4	3.7 12.9	1,170.3 1,101.9	1,432.0 1,550.2	0.0 0.0	137.7 94.4	(s) 0.1	(s)	0.0 0.0		2,748.0 2,746.5	H 193.6 H 186.7	R 2,941.6 R 2,933.2
2009	0.3	972.8	50.6	463.0	3.4	10.3	882.6	1,550.2	0.0	89.5	0.1	(S)	0.0	87.4	2,740.5	R 174.0	R 2.733.9
2010	0.5	1,084.1	65.4	H 337.0	5.4	19.5	948.0	1,409.8 R 1,375.3	0.0	96.4	0.1	(s)	0.0	96.2	2,559.9 R 2,652.4	R 187.1	H 2,839.5
2011 2012	1.3 2.3	1,117.2 1,149.1	69.0 51.3	R 349.5 R 407.6	5.8 5.5	27.9 8.6	886.8 794.1	R 1,339.0 R 1,267.1	0.0 0.0	95.7 96.9	0.1 0.1	(s)	0.0		R 2,655.5 R 2,619.0	R 197.9 R 197.9	R 2,853.4 R 2,816.8
2012	2.3	1,149.1	41.4	R 435.0	5.9	2.7	730.5	H 1 215 4	0.0	109.3	0.1	(S)	0.0		H 2 557 9	R 188 0	R 2.746.8
2014	2.9	1,145.1	42.2	H 406 5	3.9	2.1	728.0	R 1,182.7 R 1,186.4	0.0	131.7	0.1	(s)	0.0	118.5	H 2 580 6	R 202 5	R 2 783 1
2015 2016	3.7 4.1	1,136.1 1,229.7	29.6 27.1	R 446.6 R 427.3	3.7 3.9	2.1 5.0	704.3 R 717.8	H 1,186.4 R 1,181.1	0.0	117.3 132.9	0.0 0.0	(s)	0.0		R 2,563.0 R 2,670.0	R 198.8 R 198.6	R 2,761.8 R 2,868.6
2016	3.8	1,229.7	27.5	H // 50 3	3.9	3.9	R 772 6	R 1.267.1	0.0	122.0	0.0	(S)	0.0		R 2.787.2	R 212.3	R 2,999.5
2018	4.0	1,346.1	31.9	R 466.4	3.9	3.8	R 743.7	H 1,249.8	0.0	119.8	0.0	(s)	(s)	127.7	R 2,847.3	R 202.2	R 2,999.5 R 3,049.6
2019	3.2	1,373.6 R 1,309.4	25.3	H 497 1	3.9	3.0	H 728 2	R 1,257.5	0.0	108.7	0.0	(s)	(s)	129.1	R 2,872.2 R 2,869.6	R 198.6 R 180.7	R 3,070.8 R 3,050.3
2020 2021	3.3 4.4	R 1,237.8	12.7 28.0	R 651.2 R 671.0	4.0 3.9	1.5 3.7	R 656.3 R 632.0	R 1,325.7 R 1,338.7	0.0 0.0	107.3 105.7	0.0 0.0	(S)	(S)	123.8 129.5	R 2,816.1	R 199.8	R 3,050.3
2022	5.0	1,345.5	28.3	594.9	4.2	3.8	532.3	1,163.5	0.0		0.0	(s)	(s)	137.0	2,753.4	197.1	2,950.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Louisiana

						Po	etroleum				]			
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	0	32	847	5,690	197	3,207	700	21,729	7,944	40,314	25			
1965 1970	Ö	32 54 71	1,055 447	4,387 6,655	159 350	6,097	661	26,557	7,297 9,699	46,213	25 7			
1970	0	71	447	6,655	350	5,879	539	34,167	9,699	57,736	4			
1975 1980	0	61 74	295 255	13,554 12,457	307 159	6,082 8,644	527 721	42,554 46,927	16,835 31,159	80,154 100,321	3 3			
1985	ő	42	171	17,168	109	12,803	656	48,581	17,277	100,321 96,767	3			
990	0	56	108	20,015	73	25,879	738	43,312	21,737	111,863	3			
995 2000	0	65 51	87 84	24,900 26,583	61 8	28,853 35,399	704 752	46,434 51,716	22,664 27,170	123,704 141,711	3			
005	0	42	60	27,476	69	28,255	634	54,379	10.456	121,330	12			
006	Ö	48 52	60 25 67	30,634 26,908	51 40	23,264 22,416	618 638	62,052 53,422	13,385 14,782	130,064 118,231	3			
2007	0	52	25	26,908	40	22,416	638	53,422	14,782	118,231	3			
008	0	53 50 47	67 62	26,164 26,813	77 54	19,474 16,073	593 533	50,810 54,389	14,597 14,181	111,782 112,106	5 9			
010	0	47	88	30,727	9	4,025	651	53,782	14,001	103,284	11			
011	Ö	52 49	96	33.681	9	4,046	660	53.325	13.265	105.082	11			
012	0	49	100	25,970	8	4,136	549	51,773	12,927	95,464	11			
013	0	37 51	89 66	26,108 25,445	11	3,662	592 567	53,560	11,255	95,277 89,527	11			
015	0	37	65	30,322	12 16	3,959 3,992	621	53,048 54,521	6,431 4,049	93,587	12 12			
016	ŏ	85	62 65	27,930	17	3,797	R 533 R 515	52,605	5,192	R on 136	12			
017	0	101	65	26.396	77	3,883	R 515	50,691	12.485	<sup>H</sup> 94,112	13			
018	0	133 165	68 65	25,034 26,942	59 60	3,919 4,205	R 426 R 452	50,298	3,495 2,432	R 83,299 R 85,200	13			
019	0	181	56	26,942 _ 27,072	81	4,205 2,475	R 463	51,044 44,870	2,432 3,540	R 78,557	12 11			
2021	ŏ	225	57	R 26,809	49	2,826	H 453	50,367	6.108	R 87,153	9			
2022	0	281	59	27,176	70	3,614	457	48,955	6,259	87,032	10			
							Tri	llion Btu						
1960	0.0	32.8	4.3	33.1	0.8	17.4	4.2	114.1	49.9	223.9	0.1	256.7	0.2 R (s)	256.9
1965 1970	0.0 0.0	56.4	5.3 2.3	25.6 38.8	0.6 1.3	33.8 32.6	4.0	139.5 179.5	45.9 61.0	254.7 318.7	(s) (s)	311.1 392.1	(S)	311.1 R 392.1
975	0.0	73.4 63.0	1.5	79.0	1.2	33.9	3.3 3.2	223.5	105.8	448.1	(s)	511.1	(s)	511.1
980	0.0	77.0	1.3	72.6	0.6	48.4	4.4	246.5	195.9	569.6	(s)	646.7	(s)	646.7
985	0.0	43.9	0.9	100.0	0.4	72.0	4.0	255.2	108.6	541.1	(s)	585.8	(s)	585.8
990 995	0.0 0.0	58.1 66.9	0.5 0.4	116.6 144.9	0.3 0.2	146.1 163.6	4.5 4.3	227.5 241.6	136.7 142.5	632.2 697.5	(S)	690.6 764.5	(s) (s)	690.6 764.5
2000	0.0	54.0	0.4	154.7	(s)	200.7	4.6	269.0	170.8	800.2	(s)	854.2	(s)	854.2
2005	0.0	43.7	0.3	159.9	0.3	160.2	3.8	282.3	65.7	672.6	(s)	716.7	0.1	716.7
006	0.0	49.8	0.3	177.8	0.2	131.9	3.7	321.7	84.2	719.8	(s)	770.7	(s)	770.8
007	0.0 0.0	54.1 55.3	0.1 0.3	155.6 151.2	0.2 0.3	127.1 110.4	3.9 3.6	274.7 259.4	92.9 91.8	654.5 617.1	(s)	710.1 673.7	(s)	710.1 673.7
009	0.0	55.3 51.4	0.3	154.9	0.3	91.1	3.0	276.8	89.2	615.8	(S)	667.2	(s) 0.1	667.3
2010	0.0	48.0	0.4	177.4	(s)	22.8	3.9	272.5	88.0	565.2	(s)	613.3	0.1	613.4
2011	0.0	52.9	0.5	194.3	(s)	22.9	4.0	270.0	83.4	575.2	(s)	628.1	0.1	628.2
012 013	0.0 0.0	49.9	0.5	149.8 150.5	(s)	23.4 20.8	3.3 3.6	262.1 271.0	81.3 70.8	520.4 517.1	(s)	570.4 554.5	0.1 0.1	570.5 554.6
2013	0.0	37.4 51.9	0.4 0.3	150.5 146.6	(s) (s)	20.8 22.4	3.6	2/1.0 268.4	70.8 40.4	517.1 481.7	(s)	554.5 533.6	0.1 0.1	533.7
015	0.0 0.0	37.5	0.3	174.7	0.1	22.6	3.4 3.8 R 3.2 R 3.1	275.7	25.5	502.7	(s)	540.2	0.1	540.2
2016	0.0	86.7	0.3	160.8	0.1	21.5	R 3.2	265.9	32.6 78.5	R 484.5	(s)	R 571 2	0.1	R 571.3
2017	0.0	103.3	0.3	152.0	0.3	22.0	H 3.1 R 2.6	256.1		R 512.4 R 445.7	(s)	R 615.7 R 581.9	0.1	R 615.8 R 582.0
2018 2019	0.0 0.0	136.2 168.0	0.3 0.3	144.2 155.2	0.2 0.2	22.2 23.8	R 2.0	254.2 257.9	22.0 15.3	'' 445./ /55.5	(s) (s)	623.5	0.1 0.1	R 623.5
2020	0.0	168.0 R 184.1	0.3	155.2 155.8	0.2	14.0	R 2.7 R 2.8	226.7	15.3 22.3	455.5 R 422.2	(S)	R 606 4	0.1	H 606 4
2021	0.0	H 228.8	0.3	n 154.5	0.2	16.0	R 2.7	254.4	38.4	H 469.1	(s)	H 697.9	R (s)	R 698.0
2022	0.0	286.4	0.3	156.7	0.3	20.5	2.8	247.2	39.4	469.4	(s)	755.8	(s)	755.9

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
 Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Louisiana

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	0	120	22	0	36	58	0	0		0	NA	NA	0	
1965 1970	0 (s) 0	176 332	22 20 58	0	34 98	58 54 156	0	0		0	NA NA	NA NA	0	
1975	0	356 425	88	0	5,699 7,096	5,787	0	Ö		0	NA	NA	0	
1980 1985	0 8,760	285	1,174 132	0	7,096 59	8,270 191	0 2,457	0		0	NA 0	NA 0	0	
1990 1995	11,748	286 325	159 78	125	59 75	359	14,197	656 952		0	0	0	0	
1995 2000	12,930 15.680	325 305	78 341	3,028 2,771	13 709	3,119 3.820	15,686 15,796	952 532		0	0	0	0	
2005	15,790	285	144 49	3,311	3,038 375	6,493	15,676	811		Ö	Ö	Õ	Ö	
2006 2007	16,337 15,453	196 224	49 64	3,318 3,621	375 469	3,742 4,154	16,735 17,078	713 827		0	0	0	0	
2008	16,337	237	64 69 76	3,410	463	3,942	15,371	1,064		0	0	Ö	Õ	
2009 2010	15,722 16,218	222 271	76 56	2,833 5,425	60 140	2,969 5,621	16,782 18,639	1,236 1,109		0	0	0	0	
2011	16,713	271 293	56 52 55 69 81	8,333	31	8,416	16,615	1,044		0	ő	Ö	ő	
2012 2013	14,746 13,787	323 268	55 69	5,381 8.443	3 5	5,439 8,516	15,659 16,954	680		0	0	0	0	
2014	12,632	268 265	81	8,914	2	8,997	16,954 17,311	1,045 1,090		ő	ŏ	ő	ŏ	
2015 2016	10,777 8,567	343 331	113	7,455 8,858	11 (s)	7,579 8,888	15,301 17,152	999 1,103		0	0	0	0	
2017	8,398	279	113 30 44	8,575	(5)	8,619	15.410	906		0	2	0	0	
2018 2019	8,111 5,287	301 342	41 49	8,127 6,255	0	8,167 6,303	17,153 13,981	1,180 1,366		0	2	0	0	
2020	2.743	356	14	6.611	0	6,625	16,950	1,204		0	39	0	0	
2021 2022	5,555 5,296	317 365	27 33	7,520 6,027	0	7,547 6,060	17,249 16,165	1,109 916		0	146 196	0	0	
2022	3,290	303	- 33	0,027	0	,	Trillion Btu	910		0	190	U	U	
1960	0.0	124.0	0.1	0.0	0.2		0.0	0.0	0.0	0.0	NA	NA	0.0	124.4
1965	0.0 (s) 0.0	182.9	0.1	0.0 0.0	0.2 0.2	0.4 0.3	0.0	0.0	0.0	0.0	NA	NA	0.0 0.0	183.3
1970 1975	0.0 0.0	341.4 377.1	0.3	0.0 0.0	0.6 35.8	1.0 36.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	342.3 413.5
1980	0.0	442.4	0.5 6.8	0.0	44.6	51.5	0.0	0.0	0.0	0.0	NA	NA	0.0	493 9
1985	148.1 192.9	298.4	0.8	0.0 0.8	0.4 0.5	1.1 2.2	26.1 150.2	0.0 R 2 2	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	473.8 R 647.5 R 735.6
1990 1995	209.0	298.6 338.4	0.9 0.5	18.2	0.1	18.8	164.8	R 2.2 R 3.2	1.3 1.3	0.0	0.0	0.0	0.0 0.0	R 735.6
2000 2005	251.9 251.9	315.3 293.5	2.0	16.7 18.9	4.5 19.1	23.1 38.9	164.7 163.6	R 1.8	1.0 1.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0	R 757.9 R 751.8
2006	263.4	203.3	2.0 0.8 0.3	19.0	2.4	21.6	174.6	R 2.8 R 2.4 R 2.8 R 3.6	1.0	0.0	0.0	0.0	0.0 0.0	H 666.4
2007 2008	248.1 260.7	231.7 244.0	0.4 0.4	20.7 19.5	3.0 2.9	24.0 22.8	179.1 160.7	H 2.8	1.3 1.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 687.0 R 693.1
2009	252.2	229.2	0.4	16.2	0.4	17.0	175.5	H42	1.1	0.0	0.0	0.0	0.0	н 679 2
2010 2011	259.2 268.7	276.8 299.6	0.3 0.3	31.0 47.7	0.9 0.2	32.2 48.2	194.8 173.9	R 3.8 R 3.6	1.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 768.0 R 794.9
2011	236.7 236.5 225.8	328.5 273.3	0.3	30.8	(s)	46.2 31.1	164 1	R 2.3 R 3.6	1.2 1.0	0.0	0.0	0.0	0.0	R 763.4
2013	225.8	273.3	0.4	30.8 48.3	(s)	48.7	177.2	R 3.6 R 3.7	1.2	0.0	0.0	0.0	0.0	R 763.4 R 729.6
2014 2015	207.0 170.5	273.0 352.4	0.5 0.7	51.0 42.6	(s) 0.1	51.5 43.4	181.1 160.0	R34	1.4 1.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 717.5 R 731.0
2016	170.5 136.4	340.7	0.2	50.7	(s)	50.8	179.4	R 3.8 R 3.1	1.3	0.0	0.0	0.0	0.0	R 712.4
2017 2018	138.5 133.9	287.1 308.9	0.3 0.2	49.0 46.5	0.0 0.0	49.3 46.7	161.2 179.3	H 4.0	1.4 1.3	0.0 0.0	(s) (s)	0.0 0.0	0.0 0.0	R 640.6 R 674.2
2019	87.5	352.1	0.3	35.8	0.0	36.0	146.0	R <sub>4</sub> 7	1.4	0.0	(s) R 0.1	0.0	0.0	n 627.7
2020 2021	45.4 91.5	365.4 325.7	0.1 0.2	37.8 43.0	0.0 0.0	37.9 43.2	177.1 R 179.9	R 4.1 R 3.8	1.0 1.4	0.0 0.0	<sup>n</sup> 0.1 Ros	0.0 0.0	0.0	R 630.9 R 645.9
2021 2022	91.5 91.9	325.7 373.3	0.2 0.2	43.0 34.5	0.0	43.2 34.7	168.6	3.1	1.3	0.0	R 0.5 0.7	0.0	0.0 0.0	673.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Maine

<b>Year</b> 1960	Coal Thousand	Natural gas <sup>a</sup>	Distillate											
	Thousand	9	fuel oil b	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
1960	short tons	Billion cubic feet		·	1	Thousand barrels		·		Mi	llion kilowatthours	3	Thousan	d barrels
	794	0	7,415	442	1,904	8,378	5,408	3,265	26,811	0	2,844	0	NA	NA
1965	316	0	9,220	550	1,812	9,131	6,340	3,061	30,114	0	2,069	0	NA	NA
1970	91	1	11,822	635	2.300	11,025	11,605	2,757	40,144	0	2.853	0	NA	NA
1971 1972	97 59	1 2	12,134 12,911	634 770	2,472 2,357	11,499 12,104	18,738 21,098	2,868 2,854	48,344 52,094	0 54	2,463 2,655	0	NA NA	NA NA
1973	61	2	12,493	770 784	2,417	12,104	19,727	2,595	50,511	3.351	3,095	0	NA NA	NA NA
1974	84	2	12,014	784 794	2.150	12,495 12,388	15.099	2,306	44,750	3,351 3,574	2.911	Ö	NA	NA
1975	56	2	11,505	963	1,988 1,941	12.645	9,929 12,701	1,970	39,001	4,502	2,664 3,094	0	NA	NA
1976 1977	44	2	13,602 14,805	1,148 1,205	1,941 2,316	13,290 13,488	12,701 12,166	2,427 2,033	45,109 46,013	5,929 5,143	3,094	0	NA NA	NA NA
1978	25 30	2	13,670	1,099	2 344	13,666	10,452	1,698	42,929	5,354	3,035 2,827	0	NA NA	NA NA
1979	32	2	11,437	1,711	2,211 1,875	12,440	10,368 8,557	1,234 1,217	39,401	4.497	2,789 2,417	Ö	NA	NA
1980	124	2	10,628	874	1,875	11,768	8,557	1,217	34,919	4,404	2,417	0	NA	NA
1981 1982	130 283	2	9,248 9,164	714 837	1,547 1,595	11,569 11,807	9,978 15,448	1,004 991	34,060 39,843	5,212 4,524	2,854 2,943	0	4	NA NA
1983	239	3	7,351	842	1,595	12,089	8,419	1,164	39,043	5,730	2,943	0	0	NA NA
1984	200	2	9,042	605 674	1,520 1,639	12,281	10,328	2,416	31,370 36,192	5,123	2,987	ŏ	ŏ	NA
1985	206	3	10,370	674	1,639	12,548	7.900	3,447	36,578	5,354	2.691	0	0	NA
1986	375	2	12,341	1,038	1,615	13,436	12,812	1,635	42,877	6,242	3,007	0	0	NA
1987	273 277	3	13,148 15,076	1,303 1,608	1,813	14,105 15,368	9,252 12,129	1,813 2,842	41,433	4,043 5,017	2,677	0	0	NA NA
1988 1989	271	4	13,266	1.570	2,103 2,249	15,368 14,194	11,829	2,209	49,127 45,317	6,942	2,542 3,445	0	0	NA
1990	401	5	13,331	1,391 1,475	2,528 2,374	14 126	10.630	1 565	43.572	4 861	4,091 3,817	Ö	Ö	NA
1991	605	5	11,580	1,475	2,374	14,125	10,156	1,988	41,697	6,264	3,817	0	0	NA
1992 1993	1,093 691	5 5	12,152 13,468	1,234 1,368	1,904 1,488	14,123 14,391	9,585 9,252	1,874 2,307	40,871 42,274	5,358 5,740	3,513 3,246	0	0	NA NA
1994	701	5 5	14,629	1,383	992	14,512	11,336	1,763	44,615	6,632	3.511	0	0	NA NA
1995	436	6	14,744	1,545	841	14,368	9,417	2,269	43,184	198	3,354 4,157	ő	Ö	NA
1996	390	6	14,950	1.832	891	14.959	9,576	2,478	44,687	5,062	4,157	0	0	NA
1997	353	6	14,666	1,242	954 930	15,987	9,880	2,632	45,361	0	3,648	0	0	NA
1998 1999	291 274	6 7	15,242 14,913	1,403	930 864	15,319 16,158	8,943 11,263	3,075 2,613	44,912 46,943	0	3,716 3,756	0	0	NA NA
2000	388	45	15,317	1,131 1,321	908	16.328	9,499	2,637	46,009	0	3,756 3,591	0	0	NA NA
2001	307	96	14 300	1.710	712	14,290 16,871	7.012	2.674	40,698 41,271	Ö	2 645	Ö	Ö	(s)
2002	311	122	14,567	1,236	671	16,871	6,095	1,830	41,271	0	2,768	0	0	
2003 2004	285 286	71 86	19,480 19,539	1,828 1,240	922 1,088	18,270 17,005	5,044 4,731	2,287 2,981	47,832 46,583	0	3,173 3,430	0	0	1
2004	276	62	16,974	2,329	1,425	17,003	6,934	2,598	40,565	0	4,091	0	110	4
2006	259	62 64	15,610	2,109	1,790	16,996	4,543	1,834	47,579 42,882	ŏ	4,278	ŏ	162	12 17
2007	251	63	15.882	2.807	1.765	16.773	4,075	1.674	42,975	0	3 738	99	232	17
2008	227	70	14,353	2,745	1,401	15,826	3,146	706	38,177	0	4,457 4,212	132	1,185	14
2009 2010	65 88	70 78	13,298 12,526	3,070	1,230	15,946 16,141	3,578	1,469	38,591	0	4,212 3,810	299	1,510	15
2010	61	78 72	13,122	2,831 2,914	852 821	15,972	2,459 2,095	1,553 1,339	36,362 36,262	0	3,810 3,979	499 707	1,405 1,442	14 15 12 42
2012	51	68	11,589	2,780 3,388	772	15,436	1,271	1,206	33,054	ŏ	3,733 3,560	887	1,475 1,691	33 152
2013	66	64	11,354	3,388	750	17,612	1.725	1,031	35,859	0	3,560	1,048	1,691	152
2014 2015	85 104 87	61 53	11,605 12,898	3,535 3,603 3,506	689 698 540	18,414 18,657	1,225 1,214	1,180 1,281	36,648	0	3,623 3,361 3,000	1,097 1,296	1,724 1,801	141
2015	87	53 53	12,090	3,506	540	19,024	1,214 604	1 113	38,351 R 37,041 R 35,777 R 33,920	0	3,000	1,667	1,898	181 308
2017	85	44	14,432	3,675	533 533	15.622	478 627	R 1,036 R 884	R 35,777	ő	3,389 3,261	2,333	1,581 1,577	383 171
2018	83	46	12,441	3,942	533	15,492	627	R 884	R 33,920	Ö	3,261	2,333 2,384	1,577	171
2019	88	45	12,332	3,945 3,542	495 353	15,393 14,020	290	R 767	R 33,223 R 31,156	0	3,499 3,158	2.494	1,582	136
2020 2021	71	45 55	11,675 R 10,970	3,542 3,672	353 504	14,020 15,584	242 362	R 1,325 R 1,423	<sup>n</sup> 31,156 R 32,514	0	3,158 2,541	2,395 2,544	1,448 1,623	144 R 108
2021	69 65	60	11,620	3,672	685	15,041	753	1,079	32,850	0	3,063	2,544	1,526	R 108 93

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Maine (trillion Btu)

					Fossi	fuels						Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>©</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	20.4	0.0	43.2	1.7	10.2	44.0	34.0	19.3	152.3	172.8	0.0	43.2	44.0
1965 1970	8.0 2.2	0.0	53.7	2.1 2.4	9.7	48.0	39.9	18.1	171.4	179.4	0.0 1.3	53.7 68.9	48.0
1970	2.2	1.3	68.9	2.4	12.5	57.9	73.0	16.3	231.0	234.5	1.3	68.9	57.9
1971	2.3	1.5	70.7	2.4	13.5	60.4	117.8	17.0	281.8	285.6	1.5	70.7	60.4
1972 1973	1.4 1.4	1.6 1.7	75.2 72.8	2.9 2.9	12.8 13.2	63.6 65.6	132.6 124.0	16.9 15.7	304.1 294.3	307.1 297.4	1.6 1.7	75.2 72.8	63.6 65.6
1973	2.0	1.7	72.6 70.0	3.0	11.7	65.1	94.9	14.0	258.7	262.3	1.7	72.6 70.0	65.1
1975	1.3	2.0	67.0	3.6	10.8	66.4	62.4	11.9	222.2	225.5	2.0	67.0	66.4
1976	1.0	2.1	79.2	4.3	10.6	69.8	79.9	14.6	258.4	261.5	2.1	79.2	69.8
1977	0.6	2.1 2.0	86.2	4.5	12.7	70.9	76.5	12.2	263.0	265.7	2.1 2.0	<i>86.2</i>	70.9
1978	0.7	2.2 2.2 2.2 2.2	79.6	4.1	12.9 12.2	71.8 65.3	65.7	10.3	244.4	247.3	2.2 2.2 2.3	79.6	71.8
1979	0.8	2.2	66.6	6.4	12.2	65.3	65.2	7.4	223.1	226.0	2.2	66.6	65.3
1980	3.0	2.2	61.9	3.2	10.2	61.8	53.8	7.3	198.3	203.5	2.3	61.9	61.8
1981 1982	3.1 6.9	2.3	53.9 53.4	2.6 3.1	8.4 8.7	60.8 62.0	62.7 97.1	6.2 6.1	194.6 230.4	200.1 240.0	2.4	53.9 53.4	60.8 62.0
1983	5.9	2.7 2.5	42.8	3.1	8.2	63.5	52.9	7.2	230.4 177.8	186.1	2.8 2.5	42.8	63.5
1984	5.0	2.5	52.7	2.2	8.3	64.5	64.9	14.8	207.4	214.9	25	52.7	64.5
1985	5.1	2.6	60.4	2.5	8.9	65.9	49.7	21.7	209.1	216.8	2.6	60.4	65.9
1986	9.3	2.6 2.5	71.9	3.8	8.8	70.6	80.5	10.0	245.7	257.5	2.6 2.5 2.7	71.9	70.6
1987	6.8	2.7	76.6	4.9	9.9	74.1	58.2	11.1	234.8	244.4	2.7	76.6	74.1
1988	6.9	3.3	87.8	6.0	11.6	80.7	76.3	17.7	280.0	290.2	3.3	87.8	80.7
1989 1990	6.8	3.9	77.3	5.9 5.2	12.4	74.6	74.4	13.5 9.5	258.0	268.7	3.9	77.3	74.6
1990	10.4 15.4	4.6 5.0	77.7 67.5	5.2 5.5	14.0 13.2	74.2 74.2	66.8 63.8	9.5 12.3	247.4 236.4	262.4 256.9	4.6	77.7 67.5	74.2 74.2
1991	27.5	5.0	70.8	4.6	10.5	74.2 74.2	60.3	11.7	232.1	264.9	5.0 5.3 5.2	70.8	74.2 74.2
1993	17.4	5.2	78.5	5.2	8.3	75.1	58.2	14.2	239.3	261.9	5.0	78.5	75.1
1994	17.6	5.3	85.1	5.2	5.6	75.7	71.3	10.5	253.4	276.3	5.3 5.6 5.9 6.5	85.1	75.7
1995	11.0	5.5	85.8	5.9	4.8	74.8	59.2	13.5	243.9	260.4	5.6	85.8	74.8
1996	9.8	5.8	87.0	6.9	5.1	77.9	60.2	14.6	251.7	267.4	5.9	87.0	77.9
1997	9.0	6.5	85.4	4.7	5.4	83.2	62.1	15.6	256.4	271.9	6.5	85.4	83.2
1998 1999	7.3 6.9	5.8 6.6	88.7 86.8	5.3 4.3	5.3 4.9	79.7 84.1	56.2	17.9	253.1 266.2	266.2 279.7	5.8 6.7	88.7 86.8	79.7 84.1
2000	10.0	48.0	89.1	4.3 5.0	4.9 5.1	84.1	70.8 59.7	15.3 15.4	259.4	2/9./ 317.4	48.0	86.8 89.1	84. I 84. 9
2000	7.9	101.2	83.2	6.5	4.0	74.3	44.1	15.7	227.9	336.9	101.2	83.2	74.3
2002	8.0	126.3	84.8	4.6	3.8	87.7	38.3	10.9	230.1	364.4	126.3	84.8	87.7
2003	7.5	73.5	113.4	7.0	5.2	95.0	31.7	13.5	265.7	346.7	73.5	113.4	95.0
2004	7.3	89.6	113.7	4.7	6.2	88.4	29.7	17.7	260.4	357.3	89.6	113.7	88.4
2005	7.1	64.8	98.8	8.8	8.1	89.5	43.6	15.1	263.9	335.8	64.8	98.8	89.9
2006	6.6	67.6	90.6	7.9	10.1	87.6	28.6	10.5	235.3	309.4	67.6	90.6	88.1
2007 2008	6.6 5.9	67.2 74.5	91.9 83.0	10.7 10.5	10.0 7.9	85.4 76.7	25.6 19.8	9.9 4.1	233.4 202.0	307.2 282.4	67.2 74.5	91.9 83.0	86.2 80.8
2009	1.7	73.6	76.5	11.7	7.9	75.9	22.5	9.0	202.7	277.9	73.6	76.8	81.2
2010	2.3	81.0	72.1	10.9	4.8	76.9	15.5	9.6	189.8	273.1	81.0	72.3	81.8
2011	1.5	75.1	72.1 75.2	11.2	4.7	75.9	13.2	8.3	188.4	265.0	75.1	<i>75.7</i>	80.9
2012	1.3	70.5	66.3	10.7	4.4	73.0	8.0	7.7	170.1	241.9	70.5	66.8	78.1
2013	1.7	65.9	64.5	13.0	4.2	83.2	10.8	6.5	182.4	249.9	65.9	65.4	89.1
2014	2.1	62.4	66.0	13.6	3.9	87.2	7.7	7.4	185.8	250.4	62.4	66.9	93.2
2015 2016	2.6 2.2	54.2 54.5	73.3 69.3	13.8 13.5	4.0 3.1	88.1 89.6	7.6 3.8	8.1 6.9	195.0	251.8 242.8	54.2 54.5	74.3 70.5	94.3 96.2
2016	2.2 2.2	54.5 45.1	69.3 81.4	13.5	3.1	73.4	3.8	R 6.5	186.1 R 181.5	R 228.8	54.5 45.1	70.5 83.1	96.2 78.9
2017	2.1	48.4	70.7	15.1	3.0	73.4	3.9	5.5	171.1	H 221 6	48.4	71.6	78.3
2019	2.2	46.3	70.1	15.2	2.8	72.3	1.8	5.5 R 4.7	166.8	R 215 2	46.3	71.0	77.8
2020	1.7	47.0	66.2	13.6	2.0	65.8	1.5	R 8.4	166.8 R 157.5	H 206 2	47.0	67.2	70.8
2021	1.6	57.2	R 62.8	14.1	2.9	73.1	2.3	9.0	H 163.8	<sup>rt</sup> 222.6	57.2	R 63.2	78.7
2022	1.3	62.6	66.5	14.1	3.9	70.6	4.7	6.8	166.4	230.2	62.6	67.0	<i>75.9</i>

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Maine (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 9.7	29.2	NA	NA	NA	NA	29.2	0.0	NA	NA	R 38.9	R 9.2	0.5	R 221.3
1965 1970	0.0 0.0	R 7.1 R 9.7	30.0 29.5	NA NA	NA NA	NA NA	NA NA	30.0 29.5	0.0 0.0	NA NA	NA NA	R 37.1 R 39.2 R 38.0	R 4.6 R 13.9 R 13.2 R 11.8	0.8 1.8	R 221.9 R 289.3 R 341.0 R 367.2 R 365.4 R 340.3 R 310.9 R 365.8 R 383.4 R 370.3 R 348.8 R 367.1 R 366.4 R 410.3 R 374.1
1971	0.0	R 8.4	29.6 29.3	NA	NA	NA NA	NA	29.6	0.0	NA	NA	R 38.0	B 13.2	4.2	R 341.0
1972	0.6	R 9.1	32.3	NA	NA	NA	NA	32.3	0.0	NA	NA	H 41 4	R 11.8	6.4	R 367.2
1973 1974	36.5 39.9	R 10.6 R 9.9	32.5 33.9	NA NA	NA NA	NA NA	NA NA	32.5 33.9	0.0 0.0	NA NA	NA NA	R 43.1 R 43.8	R -14 0	9.6 8.3	R 365.4
1975	49.6	Ra1	32.7	NA	NA	NA	NA	32.7	0.0	NA	NA	H //1 R	R -21.1 R -14.0 R -10.9 R -17.7 R -0.9	4.9	R 310.9
1976 1977	65.5 55.4	R 10.6 R 10.4	38.0 41.0	NA NA	NA NA	NA NA	NA NA	38.0 41.0	0.0 0.0	NA NA	NA NA	R 48.6 R 51.4	R <sub>-17.7</sub>	8.0	R 365.8
1977	55.4 58.6	R 9.6	41.0 45.6	NA NA	NA NA	NA NA	NA NA	41.0 45.6	0.0	NA NA	NA NA	R 55.2	H19	11.8 7.3	R 370 3
1979	48.9	R 9.5	48.0	NA	NA	NA	NA	48.0	0.0	NA	NA	H 57 5	R s a	11.0	R 348.8
1980 1981	48.0 57.5	R 8.2 R 9.7	96.0 99.9	NA (s)	NA NA	NA NA	NA 0.0	96.0 100.0	0.0 0.0	NA NA	NA NA	R 104.3 R 109.7	R -1.6	12.8 10.3	H 367.1
1982	50.1	H 10 0	96 1	0.0	NA	NA NA	0.0	96.1	0.0	NA	NA	H 106.2	R -11.1 R 3.9 R -11.2 F -6.5 R 14.8 R -5.6 R 21.4 R 15.6 R -18.3 R -36.4 R -43.7	10.3	R 410.3
1983	50.1 62.5	H 10 0	109.4	0.0	NA	NA	0.0	109.4	0.0	NA	0.0	R 110 /	R <sub>-11.2</sub>	17.3	R 374.1
1984 1985	55.6 56.9	R 10.2 R 9.2	108.1 107.9	0.0 0.0	NA NA	NA NA	0.0 0.0	108.1 107.9	0.0 0.0	0.0 0.0	0.0 0.0	R 118.3 R 117.1	n -6.5 R 14 9	19.4 2.3	R 401.7 R 408.0
1986 1987	66.0 42.2	R 10.3 R 9.1	91.4	0.0	NA	NA	0.0	91 4	0.0	0.0 0.0 0.0	0.0	R 101.6 R 97.6	R -5.6	8.8	R 428.4 R 418.4
1987	42.2	R 9.1	91.4 88.5	0.0	ŇÁ	NA	0.0	88.5	0.0	0.0	0.0 0.0	R 97.6	R 21.4	12.8	R 418.4
1988 1989	53.2 73.5	R 8.7 R 11.8	91.8 118.4	0.0 0.0	NA NA	NA NA	0.0 0.0	91.8 118.4	0.0 0.0	0.0 0.1	0.0 0.0	R 100.5 R 130.2	<sup>□</sup> 15.6 R -19.3	11.6 7.1	R 471.0 R 461.2 R 408.1 R 414.9
1990	51.4	R 14.0 R 13.0	109.0	0.0	NA	NA	0.0	109.0	0.0	0.1	0.0	R 123.0 R 130.4	R -36.4	7.6	R 408.1
1991	65.7	R 13.0	117.3	0.0	NA	NA	0.0	117.3	0.0	0.1	0.0	R 130.4	R -43.7	5.6	R 414.9
1992 1993	56.1 60.3	R 12.0 R 11.1	122.6 124.6	0.0 0.0	NA NA	NA NA	0.0 0.0	122.6 124.6	0.0 0.0	0.1 0.1	0.0	R 134.7 R 135.8	R -31.7 R -30.9 R -45.7 R -6.2 R -37.7 R -1.8	5.3 6.6	R 429.3 R 429.3 R 433.7 R 443.2 R 409.7 R 435.9 R 418.8 R 395.6
1994	69.3	R 12 n	120.4	0.0	NA	NA	0.0	120.4	0.0	0.1	0.0 0.0	R 135.8 R 132.5 R 137.7	R45.7	10.7	R 443.2
1995 1996	2.1 53.2	R 11.4	126.2 124.1	0.0 0.0	NA NA	NA NA	0.0	126.2 124.1	0.0 0.0	0.1 0.1	0.0 0.0	H 137.7 H 138.4	H -6.2	15.7 14.7	H 409.7
1996	0.0	R 14.2 R 12.4	124.1	0.0	NA	NA NA	0.0 0.0	124.1	0.0	0.1	0.0	H 137.0	R -1.8	11.7	R 418.8
1998	0.0	H 127	113.2	0.0	NA	NA	0.0	113.2	0.0	0.1	0.0	R 126 0		13.4	R 395.6
1999 2000	0.0 0.0	R 12.8 R 12.3 R 9.0	120.7 126.3	0.0 0.0	NA NA	NA NA	0.0 0.0	120.7 126.3	(s) (s)	0.1 0.1	0.0 0.0	R 133.6 R 138.6	R -18.2 R -26.2 R -61.7 R -74.9	13.1 13.2	R 408.2 R 443.0
2000	0.0	R 9.0	118.7	0.0	(s)	NA NA	0.0	118.7	(s)	0.1	0.0	R 127.8	R -61.7	9.6	R 412.7
2001 2002	0.0	Rq⊿	112.1	0.0	(s)	NA	0.0	112.1	(s)	0.1	0.0	H 121 7	R -74.9	7.1	R 412.7 R 418.3
2003 2004	0.0 0.0	R 10.8 R 11.7	100.1 102.3	0.0 0.0	(s) (s)	NA NA	0.0 0.0	100.1 102.3	(s) (s)	0.1 0.1	0.0 0.0	R 111.0 R 114.1	R -51.1 R -55.9	8.3 13.0	H 414.9 R 428 5
2005	0.0	R 14.0 R 14.6	118.7	0.4	(s)	NA NA	0.0	119.1	(s)	0.1	0.0	H 133.1	R -47.6 R -37.8	8.1	R 414.9 R 428.5 R 429.4 R 407.7 R 429.5 R 429.4 R 389.4 R 395.4
2006	0.0	R 14.6	109.8	0.6	0.1	NA	0.0	110.4	(s)	0.1	0.0 R 0.3 R 0.4	H 105 1	R -37.8	10.9 11.5	R 407.7
2007 2008	0.0 0.0	R 12.8 R 15.2	117.6 137.2	0.8 4.1	0.1 0.1	NA NA	0.0 0.0	118.5 141.4	(s)	0.1 0.1	™ 0.3 R ∩ 4	R 131.7 R 157.2	R -14 0	11.5 3.8	<sup>п</sup> 429.5 В 429 4
2009	0.0	R 14.4 R 13.0	104.0	5.2	0.1	NA	0.0	109.3	(s) 0.1	0.1	R 1.0 R 1.7	R 124.9 R 136.6	R -20.1	6.8	R 389.4
2010	0.0	R 13.0	116.7	4.9	0.1	NA	(s) (s)	121.7	0.1	0.1	R 1.7	R 136.6	R -20.6	6.3	R 395.4
2011 2012	0.0 0.0	R 13.6	115.8	5.0 5.1	0.2	0.0 0.0	(S)	121.0 118.4	0.1 0.1	0.1	R 2.4 R 3.0 R 3.6 R 3.7	R 137.2 R 134.4	n -18.0 R -7.7	9.1 7.0	R 375 6
2013	0.0	R 12.7 R 12.1	113.1 117.4	5.1 5.9	0.2 0.8	0.0	(s) (s)	124.0	0.1	R 0.2	R 3.6	H 140.0	R -15.9	16.6	R 390.6
2014	0.0	R 12.4	112.2 R 117.5	6.0	0.8	0.0	(s)	118.9	0.1	R 0.2	R 3.7	H 135.3	R <sub>-</sub> 11.5	15.4	R 393.3 R 375.6 R 390.6 R 389.5 R 399.7
2015 2016	0.0	R 11.5 R 10.2	'' 117.5 98.3	6.3 6.6	1.0 1.7	0.0 0.0	(s)	124.8 R 106.5	0.1 0.1	R 0.2 R 0.2 R 0.2 R 0.2 R 0.2 R 0.3 R 0.4	R 4.4 R 5.7	R 140.9 R 122.8	R -20.9 R -14.0 R -20.1 R -20.6 R -18.0 R -7.7 R -15.9 R -11.5 R -9.1 R -13.4 R -10.2	16.1 16.9	R 369.7
2017	0.0	R 10.2 R 11.6	98.3 94.6	6.6 5.5	2.1	0.0	(s) (s)	R 106.5 R 102.1	0.1	R 0.3	R 5.7 R 8.0	H 122.0	R <sub>-10.2</sub>	15.0	R 369.0 R 355.7 R 356.7 R 350.7
2018	0.0	R 11.1 R 11.9	97.1 B 04.0	5.5	0.9	0.0	(s)	R 103.5 100.3	0.1	H 0.4	HQ1	R 123.2 R 121.2	R -2.6 R 0.5	14.5	H 356.7
2019 2020	0.0 0.0	H 10.8	R 79.2	5.5 5.0	0.7 0.8	0.0 0.0	(s) (s)	H 85.0	0.1 0.1	R 0.4 R 0.5 R 1.2	R 8.5 R 8.2	R 121.2 R 104.6	H 9 4	13.7 9.5	R 329.6
2021	0.0	R 10.8 R 8.7	97.1 R 94.0 R 79.2 R 75.6	5.6	0.6	0.0	(s)	H 81.8	0.1	R 1.2	H 8.7	R 100.4	R 7.4	7.6	R 329.6 R 338.0
2022	0.0	10.5	73.4	5.3	0.5	0.0	(s)	79.2	0.1	2.8	9.3	101.8	-3.2	6.5	335.3

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Maine

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	777	0	7,377	442	1,904	8,378	3,560	3,265	24,926	906					2,782			
1970	91	1	11,727	635	2,300	11,025	6,835	2,757	35,279	940					5,068			
1980 1990	124 265	2	10,568 13.308	874 1,391	1,875 2,528	11,768 14,126	4,937 7,073	1,217 1,565	31,239 39,991	974 1,344					8,185 11.529			
2000	222	18	15,276	1,321	908	16,328	6,265	2,498	42,594	1,344					12,163			
2005	130	13	16,945	2,329	1,425	17,320	5,416	2,598	46,032	625					12,363			
2006	112	24	15,593	2,109	1,790	16,996	4,384	1,834	42,707	779					12,285			
2007	114	29	15,856	2,807	1,765	16,773	3,378	1,674	42,252	694					11,860			
2008	100	34	14,338	2,745	1,401	15,826	2,789	706	37,806	762					11,674			
2009 2010	31 34	34 37	13,286 12,512	3,070 2,831	1,230 852	15,946 16,141	3,088 2,059	1,469 1,553	38,089 35,948	757 706					11,283 11,532			
2010	23	38	13,115	2,914	821	15,972	1,860	1,339	36,021	748					11,415			
2012	19	40	11,585	2,780	772	15,436	1,077	1,206	32,856	412					11,561			
2013	27	43	11,347	3,388	750	17,612	1,292	1,031	35,420	437					11,855			
2014	33	37	11,596	3,535	689	18,414	738	1,180	36,152	392					12,003			
2015	30	35	12,856	3,603	698	18,657	347	1,281	37,443	390					11,888			
2016	17	31	12,250	3,506	540	19,024	377	1,113 R 1,036	36,809 R 35,505	322					11,449			
2017 2018	18 21	30 33	14,417 12,425	3,675 3,942	533 533	15,622 15,492	222 320	11,036 R 884	R 33,598	364 114					11,214 12,355			
2019	18	35	12,324	3,945	495	15,393	225	R 767	R 33,150	113					11,732			
2020	13	36	11,668	3,542	353	14,020	165	R 1,325	R 31,072	83					11,347			
2021	0	36	R 10,965	3,672	504	15,584	265	R 1,423	R 32,413	80					11,585			
2022	0	35	11,612	3,671	685	15,041	272	1,079	32,361	79					11,876			
									Trillion	Btu								
1960	19.9	0.0	43.0	1.7	10.2	44.0	22.4	19.3	140.5	R 3.1	29.2	NA	NA	NA	9.5	R 202.2	R 19.1	R 221.3
1970	2.2	1.3	68.3	2.4	12.5	57.9	43.0	16.3	200.4	R 3.2	29.5			NA NA	17.3		R 35.4	R 289.3
1980	3.0	2.3	61.6	3.2	10.2	61.8	31.0	7.3	175.2	R 3.3	96.0			NA	27.9	R 307.7	R 59.4	R 367.1
1990	6.6	4.4	77.5	5.2	14.0	74.2	44.5	9.5	224.9	R 4.6	87.5			0.1	39.3	R 367.4	R 40.6	R 408.1
2000	5.8	20.3	88.9	5.0	5.1	84.9	39.4	14.6	237.9	R 4.4	99.8			0.1	41.5	R 409.8	R 33.2	R 443.0
2005	3.3	13.6	98.6	8.8	8.1	89.9	34.0	15.1	254.6	R 2.1 R 2.7	76.5			0.1	42.2	R 392.5 R 376.2	R 36.9 R 31.4	R 429.4 R 407.7
2006 2007	2.9 3.0	25.0 31.4	90.5 91.7	7.9 10.7	10.1 10.0	88.1 86.2	27.6 21.2	10.5 9.9	234.7 229.7	R 2.4	68.9 76.7			0.1 0.1	41.9 40.5	R 383.9	R 45.6	R 429.5
2008	2.6	35.8	82.9	10.5	7.9	80.8	17.5	4.1	203.8	R 2.6	103.1	0.0		0.1	39.8		R 41.5	R 429.4
2009	0.8	35.0	76.8	11.7	7.0	81.2	19.4	9.0	205.1	R 2.6	73.7			0.1	38.5	R 355.9	R 33.7	R 389.7
2010	0.9	38.6	72.3	10.9	4.8	81.8	12.9	9.6	192.3	R <sub>2.4</sub>	84.4		0.1	0.1	39.3		R 37.4	R 395.5
2011	0.6	39.7	75.7	11.2	4.7	80.9	11.7	8.3	192.4	R 2.6	87.6		0.1	0.1	38.9	R 362.0	R 31.6	R 393.6
2012	0.5	41.0	66.8	10.7	4.4	78.1	6.8	7.7	174.5	R 1.4	86.2		0.1	0.2	39.4	R 343.3	R 32.6	R 375.9
2013	0.7	44.5	65.4	13.0	4.2	89.1	8.1	6.5	186.4	R 1.5 R 1.3	89.7		0.1	R <sub>0.2</sub> R <sub>0.2</sub>	40.4	R 363.5 R 355.0	R 27.2 R 34.6	R 390.8
2014 2015	0.8 0.7	38.0 35.8	66.8 74.1	13.6 13.8	3.9 4.0	93.2 94.3	4.6 2.2	7.4 8.1	189.5 196.5	<sup>11</sup> 1.3	84.1 86.6		0.1	R 0.2	41.0 40.6	R 361.8	R 37.9	R 389.7 R 399.7
2015	0.7	31.7	70.5	13.5	3.1	94.3 96.2	2.2	6.9	190.5	R 1.1	70.3		0.1	R 0.2	39.1	R 335.3	R 33.3	R 368.6
2017	0.5	31.1	83.0	14.1	3.0	78.9	1.4	R 6.5	R 187.0	R 1.2	66.1		0.1	R 0.3	38.3	R 324.5	R 30.8	R 355.3
2018	0.5	33.9	71.6	15.1	3.0	78.3	2.0	5.5	R 175.6	R <sub>0.4</sub>	70.1	(s)	0.1	R <sub>0.3</sub>	42.2	R 323.1	R 33.7	R 356.8
2019	0.4	36.5	71.0	15.2	2.8	77.8	1.4	R 4.7	172.8	R 0.4	73.7	(s)	0.1	R 0.4	40.0	R 324.4	R 26.6	R 351.0
2020	0.3	36.9	67.2	13.6	2.0	70.8	1.0	R 8.4	163.0	R 0.3	R 57.0		0.1	R 0.5	38.7	R 296.8	R 33.1	R 329.9
2021	0.0	37.1	R 63.2	14.1	2.9	78.7	1.7	9.0	R 169.5	R <sub>0.3</sub>	R 53.5		0.1	R 0.6	39.5		R 37.5	R 338.2
2022	0.0	36.5	66.9	14.1	3.9	75.9	1.7	6.8	169.3	0.3	54.4	(s)	0.1	1.3	40.5	302.4	33.2	335.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

l Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Maine

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	122	0	4,727	201	2,091	7,019				993			
1965	71	0	6,139	223	1,691	8,052				1,224			
1970 1975	24	1	7,877	224 354	1,649	9,751 8,932				1,723			
19/5	, 5	1	7,646 6,372	354	932	8,932 7,009				2,487			
1980 1985	11		5,372	232 204	405 910	7,009 6,565				2,998 3,419			
1990	9	i	5,451 5,987	506	563	6,565 7,055				3,932			
1995 2000	(s)	1	7.627	656	1,089 1,681	9,372 9,251				3.629			
2000	(s)	1	6,957	613	1,681	9,251				3,737			
2005	(s)	1	8,428 7,431 7,253	982 822	1,711 1,391 957	11,121				4,503			
2006 2007	(S)		7,431	1,151	1,391	9,644 9,361				4,351 4,413			
2007	(s)	i	5,989	1,131	420	7,718				4,351			
2009	ŏ	i	5.402	1,309 1,360 1,565	420 542 525 372 150	7,304				4.360			
2009 2010	Ö	1	5,402 4,670	1,565	525	7,304 6,761				4,360 4,372			
2011	0	1	5.068	1.360	372	6.800				4.382			
2012	0	1	4,205	1,280	150	5,635				4,481			
2013	0	2	4,412	1,487	160 250 235 335	6,059				4,662			
2014 2015	0	3	4,507 5,608	1,708 1,680	250 235	6,465 7,523				4,661 4,662			
2016	0	3	5,317	1,705	335	7,357				4,586			
2017	Ŏ	3	5,469	1,708	225 190	7,403				4,639			
2018	0	3	5,573	2,038	190	7,801				4,872			
2019	0	3	5,258	2,115	255	7,628				4,794			
2020	0	3	5,013	1,873	269 R 215	7,155				4,905			
2021 2022	0	3	R 4,662 4,642	1,745 1,757	190	R 6,623 6,590				5,062 5,091			
2022	0	3	4,042	1,737	190	0,390				3,091			
							Trillion Btu						
1960	3.0	0.0	27.5	0.8	11.9	40.2	8.5	NA	NA	3.4	55.1	R 6.8	R 61.9
1965 1970	1.8 0.6	0.0 0.5	35.8	0.9 0.9	9.6	46.2 56.1	6.4	NA NA	NA NA	4.2	58.6 67.5	R 8.2	n 66.8 B 70.6
1975	0.6	0.5	35.8 45.9 44.5	1.4	9.4 5.3	51.2	4.4 5.8	NA NA	NA NA	4.2 5.9 8.5	66.4	R 12.0 R 17.3	R 66.8 R 79.6 R 83.7
1980	0.1	0.6	37.1	0.9	2.3	40.3	9.6	NA	NA	10.2	60.8	R 21.8	R 82.5
1980 1985	0.3	0.5	31.8	0.8	2.3 5.2	40.3 37.7	9.6 6.8	NA	NA	11.7	56.9	R 21.8 R 23.7	R 82.5 R 80.6
1990 1995 2000	0.2	0.7	34.9	1.9 2.5	3.2 6.2 9.5	40.0	4.3 4.7	0.0	0.1	13.4 12.4	58.7	R 13.9 R 4.3 R 10.2	R 72.5 R 75.5 R 80.1 R 98.7 R 86.7 R 91.1
1995	(s)	0.9 1.2	44.4	2.5	6.2	53.1 52.4	4.7	0.0	0.1	12.4	71.2	H 4.3	H 75.5
2000	(s)	1.2	40.5 49.0	2.4	9.5	52.4	3.5	(s)	0.1	12.7	69.9	R 10.2 R 13.4	<sup>™</sup> 80.1
2005 2006 2007	(S)	1.2 1.0 1.3	49.0 43.1	3.8 3.2 4.4	9.7 7.9	62.5 54.2 51.8	6.0 5.4	(s) (s)	0.1 0.1	15.4	85.2 75.5	N 13.4 R 11 1	11 98.7 R 96.7
2000	(S)	1.0	43.1 42.0	3.2 4.4	5.4	51.8	5.9	(s)	0.1	14.8 15.1	74.2	R 11.1 R 17.0	R 91 1
2008	0.0	1.2	34.6	5.0	2.4	42.0	6.6	(s)	0.1	14.8	64.8	H 15.5	R 80.3 R 83.2 R 81.8
2008 2009	0.0	1.2 1.3	31.2	5.2	3.1	39.5	14.3	0.1	0.1	14.9	70.2	R 13.0 R 14.2	R 83.2
2010	0.0	1.3	27.0	6.0	3.0	36.0	15.3	0.1	0.1	14.9	67.7	R 14.2	R 81.8
2011 2012	0.0 0.0	1.5 1.5	29.2 24.3	5.2 4.9	2.1 0.8	36.6 30.0	14.9 12.4	0.1 0.1	0.1 R 0.1	14.9 15.3	68.1 59.5	R 12.1 R 12.6 R 10.7	R 80.2 R 72.1 R 77.1
2012	0.0	1.5	24.3 25.4	4.9 5.7	0.8	30.0	12.4 16.2	0.1	''0.1	15.3	59.5	112.6 B 10.7	11 /2.1 B 77 1
2013 2014	0.0 0.0	1.9 2.4	26.0 26.0	5.7	1.4	32.0 33.9	16.4	0.1 0.1	0.2	15.9 15.9	66.4 R 68.9 R 83.5 R 74.5 R 75.3	R 13.4	/ / . I R 82 л
2015	0.0	2.4	32.3	6.6 6.5	1.3	40.1	24.5	0.1	0.2 R 0.2	15.9	R 83.5	R 13.4 R 14.9	R 98 4
2016 2017	0.0	2.6 2.8	30.6 31.5	6.5 6.6	1.9	39.1 39.3	16.9 17.0	0.1	R 0.2 R 0.2 R 0.3	15.6 15.8	R 74.5	R 13.3 R 12.7 R 13.3	R 82.4 R 98.4 R 87.8 R 88.1
2017	0.0	2.8	31.5	6.6	1.3	39.3	17.0	0.1	R 0.2	15.8	R 75.3	R 12.7	R 88.1
2018	0.0	3.2	32.1	7.8	1.1	41.0	H 20 5	0.1	H 0.3	16.6	'' 81 /	H 13.3	n 95 ()
2019	0.0	3.2	30.3	8.1	1.4	39.8	n 22.1	0.1	n 0.3	16.4	n 82.0	R 10.9 R 14.3	R 92.8
2020 2021	0.0 0.0	3.1 3.1	28.9 26.9	7.2 6.7	1.5 1.2	37.6 34.8	R 22.1 R 13.4 R 12.6	0.1 0.1	R 0.3 R 0.3 R 0.4	16.7 17.3	R 82.0 R 71.2 R 68.2	R 16.4	R 85.5 R 84.6
2022	0.0	3.2	26.8	6.7	1.1	34.6	17.0	0.1	0.4	17.4	72.7	14.2	86.9
	0.0	U.E	_0.0	3.7		50	0	<b>5.1</b>	0.1	.,,,,	,,		55.0

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Maine

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	8/1	0	996	202	100	20	145	1,473	NA			NA	542			
1965 1970	84 54	Ö	1,294	225 226	81	29 34	72 292	1,706	NA		==	NA	819		==	==
1970 1975	19 17	(s)	1,660 1,611	226	79 45	40 40	292	2,298 2,386	NA NA			NA NA	975			
1980	20	i	1,840	357 233 206	45 70	48	334 682	2,874	NA NA			NA NA	1,568 1,717			
1985	38	1	1,082	206	99	104	1,040	2,530	NA			NA	2,338			
1990 1995	34 3	2 2	2,006 2,285	510 662	68 161	101 12	2,137 369	4,821 3,489	0			0	2,847 2,973			
2000	3	3	3.223	618	136	12	253	4.242	0			0	3,876			
2005 2006	3	5	2,882	1,060 894	136 217 150	14	494 280	4,666	0			0	4,157			
2006 2007	3	5 6	2,608 2,931	894 1,362	150 117	31 48	280 408	3,962 4,865	0			0	4,134 4,195			
2008	0	6	2,661	1,367	48	20	746	4,842	ő			ő	4,148			
2009	0	6	2,107	1,603	52	34 37	407	4,204	0			0	4,071			
2010 2011	0	6	2,189 2,395	1,200 1,433	52 49 38 22	37 19	283 208	3,759 4,092	0			1	4,101 4,018			
2012	ŏ	7	1,801	1,449	22	17	104	3,394	ő			2	4,053			
2013	0	8	1,429	1,848	20	30 23	208 58	3,536	0			4	4,016			
2014 2015	0	9 10	1,744 1,509	1,760 1,810	36 34	23 315	58 59	3,621 3,726	0			6	3,985 4,018			
2016	ŏ	9	1,422	1,700	20 36 34 32 22	311	43	3,509 3,704	ŏ			10	3,986			
2017 2018	0	9 10	1,487 1,516	1,843 1,809	22 24	316 319	36 40	3,704 3,708	0			14 19	3,917			
2018	0	10	1,587	1,809	35	322	40 27	3,706	0			32	4,447 4,148			
2020	Ö	9	1,417 R 1,573	1,591	35 35	326	24	3 303	Ō			32	3,816			
2021 2022	0	9	<sup>H</sup> 1,573 1,546	1,846 1,818	26 23	328 347	35 36	R 3,808 3,770	0			68 253	3,949 4,129			
2022	0	3	1,340	1,010	23	347	30		llion Btu			233	4,123			
4000	0.4	0.0	F.0	0.0	0.0		0.0			0.0	NIA.		4.0	40.0	B o 7	Baca
1960 1965	2.1 1.3	0.0 0.0	5.8 7.5 9.7	0.8 0.9	0.6 0.5	0.2	0.9 0.5	8.2 9.5	NA NA	0.2 0.1	NA NA	NA NA	1.9 2.8	12.3 13.7	R 3.7 R 5.5	R 16.1 R 19.2
1965 1970	0.4	0.4	9.7	0.9	0.4	0.2 0.2	1.8	13.0	NA	0.1	NA	NA	3.3	17.3	Rea	H 2// 1
1975 1980	0.4 0.5	0.5 0.9	9.4 10.7	1.4 0.9	0.3	0.2 0.3	2.1 4.3	13.3 16.6	NA NA	0.1 0.2	NA NA	NA NA	5.3 5.9	19.7 23.9	R 10.9 R 12.5	R 30.6
1985	0.9	12	6.3	0.8	0.4 0.6	0.5	6.5	14.7	NA NA	0.2	NA NA	NA NA	8.0	25.0	H 16 2	R 36.4 R 41.2
1990	0.9	1.7 2.5	11.7	2.0	0.4	0.5	13.4 2.3	14.7 28.0 19.1	0.0	3.1	0.0	0.0	9.7	43.4	n 10 0	R 53.4
1995 2000	0.1 0.1	2.5 3.2	13.3 18.8	2.0 2.5 2.4	0.9 0.8	0.1 0.1	2.3 1.6	19.1 23.6	0.0 0.0	4.0 3.5	0.0	0.0 0.0	10.1 13.2	35.8 43.5	R 3.5 R 10.6	R 53.4 R 39.3 R 54.1
2005	0.1	5.0	16.8	4.1	1.2	0.1	3.1	25.2	0.0	2.7	0.0	0.0	14.2	47.3	H 12.4	R 59.7
2006	0.1	5.0 5.0	15.1	4.1 3.4	0.8	0.2	1.8	21.3	0.0	2.6	0.0	0.0	14.1	43.1	R 10.6	R 59.7 R 53.7
2007 2008	0.1 0.0	6.2 6.3 5.8	17.0 15.4	5.2 5.3 6.2	0.7 0.3	0.2	2.6 4.7	25.7 25.7	0.0 0.0	2.7 2.9	0.0 0.0	0.0 0.0	14.3	48.9 49.1	R 16.1	R 65.0
2009	0.0	5.8	12.2	6.2	0.3	0.1 0.2	2.6	21.4	0.0	4.0	0.0	0.0	14.2 13.9	45.0	R 14.7 R 12.2	R 63.8 R 57.2
2010	0.0	6.1	12.6	4.6 5.5 5.6	0.3	0.2	1.8	19.5	0.0	4.1	0.0	(s)	14.0	43.6	H 13.3	H 56.9
2011 2012	0.0 0.0	6.9 7.5	13.8 10.4	5.5 5.6	0.2 0.1	0.1 0.1	1.3 0.7	20.9 16.8	0.0 0.0	3.8 3.3	0.0 0.0	(s)	13.7 13.8	45.3 41.5	R 11.1 R 11.4	R 56.5 R 53.0
2012	0.0	8.4	8.2	7.1	0.1	0.2	1.3	16.9	0.0	3.7	0.0	(s) (s)	13.7	42.7 R 44.1	naa	R 51 9
2014	0.0	9.3	10.0	6.8	0.2	0.1	0.4	17.5	0.0	3.7	0.0	(s)	13.6	R 44.1	R 11.5	<sup>H</sup> 55.6
2015 2016	0.0 0.0	10.4 8.8	8.7 8.2	7.0 6.5	0.2 0.2	1.6 1.6	0.4 0.3	17.8 16.7	0.0 0.0	5.4 4.6	0.0 0.0	R (s) R (s)	13.7 13.6	47.3 R 43.8	R 12.8 R 11.6	R 60.1 R 55.4
2017	0.0	9.2	8.6	7.1	0.1	1.6	0.2	17.6	0.0	5.0	0.0	□ (c)	13.4	R 45 2	H 10 8	H 56.0
2018	0.0	9.9	8.7	6.9	0.1	1.6	0.3	17.7	0.0	4.6	0.0	<sup>™</sup> 0.1	15.2	R 47.4	H 12.1	n 59.6
2019 2020	0.0 0.0	10.3 9.3	9.1 8.2	6.7 6.1	0.2 0.2	1.6 1.6	0.2 0.2	17.8 16.3	0.0 0.0	4.3 4.0	0.0 0.0	R 0.1 R 0.1	14.2 13.0	R 46.6 R 42.7	R 9.4 R 11.1	R 56.0 R 53.8
2021	0.0	9.4	9.1	7.1	0.1	1.7	0.2	18.2	0.0	3.7	0.0	H 0.2	13.5	R 45.0	H 12.8	R 57.8
2022	0.0	9.8	8.9	7.0	0.1	1.8	0.2	18.0	0.0	4.0	0.0	0.9	14.1	46.8	11.6	58.3

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Maine

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960	562 191	0	402 500	38	166 145	2,639	884	4,130	906				NA	1,246			
1965	191	0	500	100	145	1,270	1,085	3,099	697				NA	1,715			
1970	48	(s)	805	182 250	137 79	5,128	821 814	7,072	940				NA	2,370			
1975 1980	32 99	1	682 762	400	79 76	5,848 4,047	528	7,674 5,812	832 974				NA NA				
1985	157	1	509	249	124	3,407	2,278	6.567	974				NA NA				
1990	222	ż	841	358	124 94	4,789	738	6,567 6,821	1,344				0	4,750			
1995	279	2	1,201	216	169	7,378	610	9,574	1,155				0				
2000	219	13	969	89	87	5,315	518	6,979	1,296				0	4,551			
2005	127	7	1,059	278	265	3,972	514	6,089	625				0	3,702			
2006 2007	109 112	18 22	820 950	385 287	292 261	3,287 2,772	128	4,912 4,701	779 694				0	3,800 3,252			
2007	100	26	1,101	57	199	1,985	432 96	3,438	762				0	3,175			
2009	31	26	861	97	192	1.882	742	3.775	757				ŏ	2.852			
2010	34	28	854	53	308	1,338	834	3,388	706				(s)	3,059			
2011	23	28	942	109	309	1,113	758	3,232	748				(s)	3,016			
2012	19 27	30 32	910	37 34	286 291	483 431	909 710	2,625 2,052	412				(s)	3,027			
2013 2014	33	32 24	586 593	34 45	291 265	431 359	710 752	2,052	437 392				(s)	3,177 3,357			
2014	30	21	691	97	224	128	853	1,993	392				(8)	3,208			
2016	17	19	592	80	228	135	595	1 629	322				(s)	2,877			
2017	18	18	611	115	230	125	595 R 641	R 1 722	364				(s)	2,658			
2018	21	19	684	93	232	214	R 551 R 360	H 1 774	114				(s)	3,036			
2019	18	21	816	92	231	140	R 360	R 1,639	113				(s)	2,790			
2020	13	23	681	74	233 223	122	R 917	R 2,028 R 2,148	83				(s)	2,626			
2021 2022	0	22 21	671 679	75 88	223	166 171	R 1,012 693	1,868	80 79				(s) (s)	2,574 2,655			
2022	0	21	0/9	00	231	171	093	1,000	Trillion Bt				(5)	2,033			
															P	P	D
1960	14.5	0.0	2.3	0.1	0.9	16.6	5.7	25.7	R 3.1 R 2.4	20.5	NA	NA	NA	4.3	R 68.1 R 55.5	R 8.6 R 11.5	R 76.6 R 67.1
1965 1970	4.9 1.2	0.0 0.4	2.9 4.7	0.4 0.7	0.8 0.7	8.0 32.2	6.9 5.4	18.9 43.7	R 3.2	23.5 25.0	NA NA	NA NA	NA NA		R 81.4	R 16.6	R 98.0
1975	0.8	0.4	4.0	0.7	0.7	36.8	5.3	43.7	R 2.8	26.8	NA NA	NA NA	NA NA			R 17.3	R 104.1
1980	2.4	0.7	4.4	1.4	0.4	25.4	3.4	35.1	R 3.3	86.2	NA	NA	NA NA	11.8	H 139 6	R 25 2	H 164 8
1985	3.9	0.9	3.0	0.9	0.7	21.4	15.0	40.9	Raa	101.0	0.0	NA	NA	13.9	R 163 9	R 28.2 R 16.7 R 5.9	R 192.1
1990	5.5	2.0	4.9	1.2	0.5	30.1	4.8	41.6	R 4.6	80.1	0.0	0.0	0.0		R 150.0	R <sub>_116.7</sub>	R 166.8
1995	7.0	2.0	7.0	0.7	0.9	46.4	3.9	59.0	R 3.9	98.4	0.0	0.0	0.0	16.9	R 187.2	H 5.9	R 193.0
2000 2005	5.7	15.0 6.8	5.6	0.3 1.0	0.5 1.4	33.4 25.0	3.3 3.3	43.1 36.8	R 4.4 R 2.1	92.8 67.8	0.0 0.0	0.0	0.0	15.5 12.6	R 176.6 R 129.3	R 12.4 R 11.1	R 189.0 R 140.4
2005	3.2 2.8	18.5	6.2 4.8	1.0	1.5	20.7	0.8	29.0	H 2.1	61.0	0.0	0.0	0.0		R 126.8	R 9.7	R 136.6
2007	2.9	23.2	5.5	1.0	1.3	17.4	2.8	28.0	R 2.7 R 2.4 R 2.6	68.1	0.0	0.0	0.0	11.1	H 125 7	H 12 E	H 1/0 2
2008	2.6	27.3	6.4	0.2	1.0	12.5	0.6	20.6	R 2.6	93.5	0.0	0.0	0.0	10.8	R 157.6	R 11 3	R 168 8
2009	0.8	27.0	5.0	0.3	1.0	11.8	4.9	23.0	R 2.6 R 2.4	55.5	0.0	0.0	0.0	9.7	<sup>rt</sup> 118.6	R 8.5 R 9.9	R 127.1 R 138.8
2010	0.9	29.5	4.9	0.2	1.6	8.4	5.5	20.6	R 2.4	65.1	(s)	0.0	(s)	10.4	R 128.8	R 9.9	R 138.8
2011	0.6	28.9	5.4	0.4	1.6	7.0	5.0	19.4	R 2.6	68.9	(s)	0.0	(s)	10.3	R 130.6	R 8.3	R 139.0
2012 2013	0.5 0.7	31.1 33.3	5.2 3.4	0.1 0.1	1.4 1.5	3.0 2.7	6.0 4.7	15.9 12.4	R 1.4 R 1.5	60.0	(s) (s)	0.0	(s) (s)	10.3 10.8	R 129.7 R 128.5	R 8.5 R 7.3 R 9.7 R 10.2	R 138.2 R 135.8
2013	0.7	24.9	3.4	0.1	1.3	2.7	4.7 5.0	12.4	H12	64.0	(S)	0.0	(S)	11.5	R 114.7	R 0 7	R 124.4
2015	0.7	21.6	4.0	0.2	1.1	0.8	5.6	11.9	H12	56.7	(s)	0.0	(8)	10.9	H 103.3	R 10 2	R 113.5
2016	0.4	19.5	3.4	0.3	1.2	0.8	3.9	9.6	H11	100	(s)	0.0	(s)	9.8	R 89.3	H R A	H 97 7
2017	0.5	18.3	3.5	0.4	1.2	0.8	4.2	10.1	H12	44.1	(s)	0.0	(s)	9.1	Rggg	R73	H 90 6
2018	0.5	19.9	3.9	0.4	1.2	1.3	_ 3.6	10.4	H 0.4	44.9	(s)	0.0	(s)	10.4	R 86.6	R 8.3	H 94.9
2019	0.4	21.8	4.7	0.4	1.2	0.9	R 2.4	R 9.5	R 0.4	47.3	(s)	0.0	(s)	9.5	n 88.9	R 6.3	R 95.2
2020	0.3	23.6	3.9	0.3	1.2	0.8	R 6.1		R 0.3 R 0.3	39.7	(s)	0.0	(s)	9.0	R 85.0 R 82.1	R 7.6 R 8.3	R 92.7 R 90.4
2021		22.8	3.9	0.3	1.1	1.0	0.7 4.6		0.3	37.2				9.8	75.3	7.4	82.7
2021 2022	0.0 0.0	22.8 21.6	3.9 3.9	0.3 0.3	1.1 1.2	1.0 1.1	6.7 4.6	13.0 11.1	0.3	37.2 33.3	(s) (s)	0.0 0.0	(s) (s)	8.8 9.1	75.3		3.3 7.4

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Maine

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	10	0	57	1,251	1	1,904	133	8,183	776	12,305	0			
1965	1	0	89	1.199	2	1,812	116	8.952	625	12,794 16,158	0			
1970 1975	(s) (s)	0	93 71	1,385 1,524	3	2,300 1,988	114 108	10,848 12,526	1,415 934	16,158 17,155	0			
1980	0	(s)	82	1.593	9	1,875	132	11.644	209	15 544	ŏ			
1985	0	(s)	41 62	3,300	15	1,639	120 135	12,320 13,931	21	17,455 21,295	0			
1990 1995	0	(s) (s)	62 35	4,474 3.598	17 11	2,528 841	129	13,931	147 204	21,295 19,004	0			
2000	ŏ	1	35 25	4,126	1	908	138	16,229	697	22,122	(s)			
2005	0	1	40	4,576	9	1,425	116	17,040	950	24,157	0			
2006 2007	0	(s)	52 51	4,734 4,722	8 7	1,790 1,765	113 117	16,674 16,464	817 198	24,189 23,325	0			
2008	ő	1	33	4.586	12 9	1.401	108 97	15.607	59	21.807	Ŏ			
2009	0	1	33 35 22	4,917	9	1,230 852	97 122	15,720	798 438	22,806	0			
2010 2011	0	2	53	4,799 4,710	12 12	852 821	117	15,795 15,644	438 539	22,041 21,896	0			
2012	ŏ	1	53 18	4,668	12 14	821 772	107	15,133	490	21,202	ŏ			
2013	0	1	15	4,920	19	750	125 125	17,291	653	23,773	0			
2014 2015	0	1	16 24	4,752 5,048	22 16	689 698	137	18,126 18,118	321 160	24,051 24,200	0		 	
2016	ŏ	i	22	4.919	21	540	128	18,485	199	24.314	ŏ			
2017	0	1	22 25 23 26	6,850	8	533	H 125	15,076	60 66	22,677	0			
2018 2019	0	1	23 26	4,652 4,663	3 3	533 495	96 92	14,941 14,840	66 58	20,315 20,177	0			
2020	Ö	i	19 23	4,556 R 4,059	3	353 504	96 92 84 R 85	13,461	19 63	18,496 R 19,833	ő			
2021	0	2	23	H 4,059	5	504	H 85	15,032	63	H 19,833	0			
2022	0	2	24	4,745	8	685	94	14,457	65	20,133	0			
								llion Btu						
1960 1965	0.2	0.0 0.0	0.3 0.4	7.3 7.0 8.1	(s) (s) (s)	10.2 9.7	0.8 0.7	43.0 47.0	4.9 3.9	66.4 68.8	0.0 0.0	66.7 68.8	0.0 0.0	66.7 68.8
1970 1975	(s) (s)	0.0	0.5	8.1	(s)	12.5	0.7	57.0	8.9	87.6	0.0	87.6	0.0	87.6
1975	(s)	0.0	0.4	8.9	(s)	10.8	0.7	65.8	5.9	92.4	0.0	92.4	0.0	92.4
1980 1985	0.ó 0.0	0.1 (s)	0.4 0.2	9.3 19.2	(s) 0.1	10.2 8.9	0.8 0.7	61.2 64.7	1.3 0.1	83.2 94.0	0.0 0.0	83.3 94.0	0.0 0.0	83.3 94.0
1990	0.0	(s) 0.1	0.3	26.1	0.1	14 0	0.8	73.2	0.9	115.4	0.0	115.4	0.0	115.4
1995 2000	0.0	0.1	0.2	20.9	(s)	4.8 5.1	0.8	73.8 84.4	1.3	101.8	0.0	101.9	0.0	101.9
2000	0.0 0.0	0.9 0.6	0.1 0.2	24.0 26.6	(s) (s)	5. I 8.1	0.8 0.7	84.4 88.5	4.4 6.0	118.9 130.1	(s) 0.0	119.8 130.7	(s) 0.0	119.8 130.7
2006	0.0	0.5	0.3	26.6 27.5	(s)	10.1	0.7	86.5	5.1	130.1 130.2	0.0	130.8	0.0	130.8
2007	0.0	0.8	0.3	27.3	(s)	10.0	0.7	84.7 79.7	1.2	124.2	0.0	125.1	0.0	125.1
2008 2009	0.0 0.0	1.0 0.9	0.2 0.2	26.5 28.4	(s)	7.9 7.0	0.7 0.6	79.7 80.0	0.4 5.0	115.4 121.2	0.0 0.0	116.5 122.1	0.0 0.0	116.5 122.1
2010	0.0	1.8	0.1	28.4 27.7	(s) (s)	4.8	0.7	80.0	2.8	116.2	0.0	118.1	0.0	118.1
2011	0.0	2.5	0.3	27.2	(s)	4.7	0.7	79.2	3.4	115.4	0.0	117.9	0.0	117.9
2012 2013	0.0 0.0	0.8 0.9	0.1 0.1	26.9 28.4	0.1 0.1	4.4 4.2	0.6 0.8	76.6 87.5	3.1 4.1	111.8 125.1	0.0 0.0	112.6 126.0	0.0 0.0	112.6 126.0
2014	0.0	1.4 1.0	0.1	27.4	0.1	3.9	0.8 0.8	91.7	2.0	125.9 126.7	0.0	127.3	0.0	127.3
2015	0.0	1.0	0.1	29.1	0.1	4.0	0.8	91.6	1.0	126.7	0.0	127.7	0.0	127.7
2016 2017	0.0 0.0	0.7 0.7	0.1 0.1	28.3 39.4	0.1 (s)	3.1 3.0	0.8 0.8	93.4 76.2	1.3 0.4	127.0 119.9	0.0 0.0	127.7 120.6	0.0 0.0	127.7 120.6
2018	0.0	0.9	0.1	26.8	(s)	3.0	0.6	75.5	0.4	106.5	0.0	107.3	0.0	107.3
2019 2020	0.0	1.2	0.1	26.9 26.2	(s)	2.8 2.0	0.6	75.0 68.0	0.4	105.7 97.0	0.0	106.9	0.0	106.9
2020 2021	0.0 0.0	1.0 1.9	0.1 0.1	26.2 R <u>23.4</u>	(s) (s)	2.0 2.0	0.5 0.5	68.0 75.9	0.1 0.4	97.0 R 103.5	0.0 0.0	97.9 R 105.5	0.0 0.0	97.9 R 105.5
2022	0.0	2.0	0.1	27.4	(s)	2.9 3.9	0.6	73.0	0.4	105.7	0.0	107.6	0.0	107.6
					. , ,									

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Maine

				Petro	leum				Biomass				<b>F</b> 1	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Waad	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kild	owatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	17	0	38	0	1,847	1,885	0	1,939		0	NA	NA	149	
1965 1970	0	0	89 95	0	4,373 4,770	4,462 4,865	0	1,372 1,913		0	NA NA	NA NA	221 516	
1975	0	0	95 42	0	4,770 2,812	4,005 2,854	4,502	1,832		0	NA NA	NA NA	1,436	 
1980	Õ	Ö	61	Ö	3.620	3,680	4,404	1,443		Ö	NA	NA	3.759	
1985 1990	0	0 (s)	28	0	3,432 3,557	3,461 3,581	5,354 4,861	1,718 2,746		0	0	0	687 2,224	
1995	136 154	(s)	23 33	245	1,466	1,744	198	2,199		ő	0	0	4,596	
2000	165	27	41	139	3,235	3,415	0	2,295		0	0	0	3,855	
2005 2006	146 147	49 40	28 17	0	1,518 158	1,546 175	0	3,466 3,499		0	0	0	2,386 3,183	 
2007	136	34	17 26	0	697	723	0	3,044		0	0	99	3,365	
2008	127	37	15	0	357	372	0	3,695		0	0	132	1,119	
2009 2010	34 54	37 40	12 14	0	491 399	503 413	0	3,454 3,105		0	0	299 499	1,980 1,847	
2011	38 32	34 28	7	Ö	235 194	242	Ō	3,231 3,320		0	0	707 887	2,653 2,045	
2012	32	28	4	0	194	198	0	3,320		0	0	887	2,045	
2013 2014	38 53	21 24	9	0	432 488	439 496	0	3,124 3,231		0	0	1,048 1,097	4,873 4,513	
2015	74	18	42	Ö	867	909	Ö	2,971		Ö	Ö	1.296	4,716	
2016 2017	70	22 14	5 15	0	227 257	232 272	0	2,678 3,025		0	0 5	1,667 2,333	4,945 4,397	
2017	66 62	14	16	0	306	322	0	3,025		0	12	2,333 2,384	4,397 4,244	
2019	69	9	8	Ö	65	73	ŏ	3,387		ő	7	2.494	4.020	
2020 2021	58 69	10 19	8 5	0	76 97	84 102	0	3,075 2,461		0	28 158	2,395 2,544	2,773 2,218	
2021	65	25	8	0	481	489	0	2,461		0	432	2,544 2,716	1,919	
							Trillion Btu							
1960	0.5	0.0	0.2	0.0	11.6	11.8	0.0	R 6.6	0.0	0.0	NA	NA	0.5	R 19.4
1965 1970	0.0 0.0	0.0 0.0	0.5 0.6	0.0 0.0	27.5 30.0	28.0	0.0 0.0	R 4.7	0.0 0.0	0.0 0.0	NA NA	NA NA	0.8	R 33.4 R 38.8
1970	0.0	0.0	0.2	0.0	17.7	30.5 17.9	49.6	R 6.5 R 6.3	0.0	0.0	NA NA	NA NA	1.8 4.9	H 78 7
1980	0.0	0.0 0.0	0.4 0.2	0.0	22.8	23.1 21.7	48.0 56.9	R⊿q	0.0	0.0	NA	NA	12.8 2.3	R 88.9 R 86.8
1985 1990	0.0 3.8	0.0 0.2	0.2 0.1	0.0 0.0	21.6 22.4	21.7 22.5	56.9 51.4	R 5.9 R 9.4	0.0 21.5	0.0 0.0	0.0 0.0	0.0 0.0	2.3 7.6	R_116.4
1995	3.9 4.2	0.1	0.2	1.5	9.2	10.9	2.1	H 7.5	19.1	0.0	0.0	0.0	15.7	H 59.3
2000	4.2	27.8	0.2	0.8	20.3	21.4	0.0	H78	26.5	0.0	0.0	0.0	13.2	R 100 8
2005 2006	3.8 3.8	51.2 42.6	0.2 0.1	0.0 0.0	9.5 1.0	9.7 1.1	0.0 0.0	R 11.8 R 11.9	42.1 40.8	0.0 0.0	0.0 0.0	0.0 0.0	8.1 10.9	R 126.7 R 111.1
2007	3.6	35.8	0.1	0.0	4.4	4.5	0.0	H 10 4	40.9	0.0	0.0	R 0.3	11.5	H_107.0
2008	3.3	38.7	0.1	0.0	2.2	2.3	0.0	R 12.6 R 11.8	34.1	0.0	0.0	R 0.4 R 1.0	3.8	R 95.3 R 92.4
2009 2010	0.9 1.4	38.5 42.4	0.1 0.1	0.0 0.0	3.1 2.5	3.2 2.6	0.0 0.0	H 10 6	30.2 32.3	0.0 0.0	0.0 0.0	H17	6.8 6.3	R 97.3
2011	1.0	35.3	(s)	0.0	1.5	1.5	0.0	R 11 0	28.2	0.0	0.0	R 2.4	9.1	R 88.5
2012	0.8	29.5	(s)	0.0	1.2	1.2	0.0	R 11.3 R 10.7	26.8	0.0	0.0	R 3.0 R 3.6	7.0	R 79.7 R 83.6
2013 2014	1.0 1.3	21.4 24.4	(s) (s) 0.1	0.0 0.0	2.7 3.1	2.8 3.1	0.0 0.0	R 11 0	27.7 28.1	0.0 0.0	0.0 0.0	R 3.5	16.6 15.4	R 87 1
2015	1.8	18.4	0.2	0.0	3.1 5.4	5.7	0.0	H 10.1	31.0	0.0	0.0	R 3.7 R 4.4	16.1	H 87.5
2016	1.8	22.8	(s)	0.0	1.4	1.5	0.0	R 9.1 R 10.3	28.0 28.5	0.0 0.0	0.0 B (a)	R 5.7 R 8.0	16.9	R 85.8
2017 2018	1.7 1.6	14.0 14.4	0.1 0.1	0.0 0.0	1.6 1.9	1.7 2.0	0.0 0.0	R 10.7	28.5 27.0	0.0 0.0	R (s) R (s)	R 8.1	15.0 14.5	R 79.2 R 78.5
2019	1.7	9.8	(s)	0.0	0.4	0.5	0.0	H 11 6	20.4	0.0	R (s)	R 8.5 R 8.2	13.7	H 66.1
2020 2021	1.3 1.6	10.1 20.1	(s) (s)	0.0 0.0	0.5 0.6	0.5 0.6	0.0 0.0	R 10.5 R 8.4	22.2 22.1	0.0 0.0	R 0.1 R 0.5	H 8.2 R 8.7	9.5 7.6	R 62.3 R 69.6
2021	1.3	26.1	(S) (S)	0.0	3.0	3.1	0.0	10.2	19.0	0.0	1.5	9.3	7.6 6.5	76.9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Maryland

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	rs	Thousan	d barrels
1960	8,528	71	12,870	1,051	2,457	22,552	16,835 15,510 22,046 29,863 36,955 41,442 39,025	6,079	61,844	0	1,358	0	NA	NA
1960 1965 1970 1971 1972 1973 1974 1975 1976	8,528 12,372 12,216 10,765 8,821	71 99 156 161 176	12,870 16,967 19,817 20,003 21,350	1,051 1,473 1,841 1,923 2,279 2,506 2,395 2,738 2,801 2,549 2,050 2,060 2,015 2,039 2,050 2,405 1,805 1,805 1,805 1,805 1,428 1,741 1,695 2,135 2,635 2,479 2,835 2,635 2,479 2,835 2,406 2,143 2,406 2,544 2,367 3,488 3,111 2,834 3,187 3,235 3,434 3,110 2,595 2,959 3,401 3,183 2,837 2,845 3,037 3,300 3,153 3,234 3,178	2,457 2,856 4,477 4,104	22,552 27,510 37,159 38,914 41,424 42,872 42,375 43,688 45,544 46,934 47,874 44,482 44,193 44,412 44,193 44,252 45,428 46,914 48,215 49,629 47,415 48,448 49,044 49,602 50,699 51,475 51,800 53,594 54,585 55,594 54,585 56,673 66,263 66,146 64,553 66,673 66,263 66,176 63,919 62,976 63,919 63,919 66,758 64,559 67,432 65,181 66,759 67,432 65,181 66,759 67,432 65,181 64,499 64,233 64,085 51,013 58,138 58,138 58,138 58,138	15,510	6,079 7,936	61,844 72,252 93,283 102,955 113,536	0	1,358 1,141 1,907 1,773 2,282	0	NA	NA
1970	12,216	156	19,817	1,841	4,477	37,159	22,046	7,944 8,147 7,683	93,283	0	1,907	0	NA NA	NA NA
1971	10,765 8 821	176	20,003	1,923 2 279	4,104 3,845	30,914 41 424	29,003 36,955	0,147 7,683	102,955	0	1,773	0	NA NA	NA NA
1973	9.974	174 172 140 148 133	22,919	2,506	3.658	42.872	41.442	7,506	120,903 116,952 104,680 107,304	0	2,165	0	NA NA	NA
1974	9,974 8,795	172	22,919 22,469 21,034 20,205	2,360	3,658 3,247	42,375	39,025	7,506 7,476	116,952	Ö	2,165 1,969	Ö	NA	NA
1975	7.761	140	21,034	2,395	3.049	43,688	26,941 27,570	7,574 8,122	104,680	4,386	2,311 2,088 2,018 1,735 2,191	0	NA	NA
1976	9,607	148	20,205	2,738	3,125	45,544	27,570	8,122	107,304	6,420	2,088	0	NA	NA NA
19//	7,510	133	21,670	2,801	3,401	46,934	26,375	8,161	109,341	10,881	2,018	0	NA NA	NA NA
1978 1979	8,323 9,500	136 172	21,216 23,768	2,549	3,295 3,237	47,874	26,375 27,451 24,027	8,161 8,484 8,600	107,304 109,341 110,870 106,164 95,181 89,140 84,997	9,896 9,674	1,735	0	NA NA	NA NA
1980	9,300	160	21,700	2,030	3,522 3,537 3,573 3,797 3,658	44,402	16 480	7 208	95 181	10,947 11,523 10,345 11,676 11,651 9,926 12,828	1 270	0	NA NA	NA NA
1980 1981 1982 1983 1984 1985 1986	9,312 8,376	160 175	21,908 18,609	2.015	3.537	44.412	16,480 13,134	7,432 6,913 7,869 9,936	89.140	11.523	1,270 1,426 1,341 1,765 2,022	ŏ	22	NA
1982	8 597	158	16,314 18,472 20,049	2,039	3,573	44,193	11,966 10,937 11,479	6,913	84,997	10,345	1,341	0	(s)	NA
1983	9,083 10,595	146 159	18,472	2,050	3,797	44,252	10,937	7,869	87,377 92,955 87,354 87,505	11,676	1,765	0	(s)	NA
1984	10,595	159	20,049	2,405	3,658	45,428	11,479	9,936	92,955	11,651	2,022	0	(s)	NA
1985	10,012	151 153 169	18,958	1,805	3,901 3,889	45,632	7,916 7,282	9,142 9,681 10,517 10,194 8,953	87,354	9,926	1,524 1,876 1,612	0	]	NA NA NA
1986 1087	10,750	153	18,310 19,525	1,428	3,889 3,771	46,914 48,215	7,282 9,077	9,681	92,847	10,070	1,876	0	0	NA NA
1988	11,311 11,757	173	19,323	1,741	3,771 4.481	40,213	10.417	10,317	92,047	10,070	1,012	0	0	NΑ
1989	11,541	193	21.381	2.135	4,481 4,384	49,629	15,711	8.953	102.193	11,734 2,719	1,328 1,778	0	0	NA NA
1990	11,193	176	18,327	1,965	3,637	47,415	10,542	8,991	90,876	1,251	2,299	Ö	Ŏ	NA
1991	11,541 11,193 10,709	173 193 176 178 185 182 186 194 196	19,985 21,381 18,327 18,646	2,018	3,637 3,293	48,448	10,417 15,711 10,542 9,786	8,991 6,710	95,897 102,193 90,876 88,902	1,251 9,036	2,299 1,407	0	0	NA
1992	9,713 10,268 10,491	185	19,694 20,157 20,387	2,635	3,061 3,000 3,229	49,044	8,224 10,402 9,479	6,974 7,973 7,860	89,631	10,664 12,301 11,235	1,825	0	0	NA
1993	10,268	182	20,157	2,479	3,000	49,602	10,402	7,973	93,613	12,301	1,658	0	0	NA NA
1994	10,491	186	20,387	2,835	3,229	50,699	9,479	7,860	94,490	11,235	2,010	0	0 76	NA NA
1995	11,198 11,366	194	19,176 21,670	2,007	3,430	51,475	4,003	7,689 7,243	89,631 93,613 94,490 88,522 92,123	12,938 12,093	1,442 2.457	0	64	NA NA
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	11,239	212	19.586	2,856	4.098	53,594	4,065 4,517 4,212	8.921		13,213 13,331 13,312 13,827 13,656 12,128	1,825 1,658 2,010 1,442 2,457 1,588 1,740 1,424 1,733 1,184	0	73	NA NA
1998	11,239 11,790 11,824	189	19,586 20,657 21,741	2,410	4,098 3,924 3,938	54,585	7,572 9,084 5,154 5,776	8,921 9,640 9,472	98,788 103,264 100,028 103,506	13,331	1,740	Ō	61	NA
1999	11,824	196	21,741	2,143	3,938	56,886	9,084	9,472	103,264	13,312	1,424	0	62	NA
2000 2001	12,221 12,519 12,571	212	22,387	2,406	4,108 2,929	57,157	5,154	8,815	100,028	13,827	1,733	0	69	NA
2001	12,519	1/8	23,134	2,544	2,929 1,718	59,263	5,776 4,571	9,861	103,506	13,656	1,184	0	/	]
2002	13,039	196	21,479	2,367	1,718	61 908	4,571 6 200	9,818 8,458	100,398	12,128	1,001	0	881 6	- 1
2002 2003 2004 2005 2006	13,006	189 196 212 178 196 197 195 203 182	22,387 23,134 21,479 22,450 22,830	2 872	2,343 3,140	63 614	6,299 6,567	9,460	104,956 108,483 111,947 102,786	13,691 14,580 14,703 13,830	1,661 2,647 2,508 1,704 2,104	0	7	2
2005	13.091	203	23,649	3.188	4.362	64.553	7.432	8.762	111.947	14,703	1.704	ŏ	1,409	2 6 18
2006	13,091 12,939	182	23,649 22,607	3,111	4,362 4,144	65,673	7,432 2,622	8,762 4,629	102,786	13,830	2,104	0	3.957	18
2007 2008 2009 2010 2011	13,142 12,274 10,740	201 196 197	21,699 19,609 19,789	2,834	3,522 3,836 3,343 6,373 6,549 6,275 6,221	66,263	2 447	5,701 5,093 3,621	102,466	14,353 14,679 14,550	1,652 1,974 1,889	0	4,950 4,433 5,233	24 21 22
2008	12,274	196	19,609	3,187	3,836	65,177	1,593 1,032	5,093	98,496	14,679	1,974	0	4,433	21
2009	10,740	197	19,789	3,235	3,343	69,165	1,032	3,621	100,186	14,550	1,889	0	5,233	22
2010	10,809	104	20,895 19,363	3,434	6,3/3 6.540	63,919	1,052 1,052 629 303 315	3,355 3,068	99,028	13,994	1,007	1 271	6,685 6,439	18
2011	7 855	209	18,003	2 595	6,349	63 891	303	2 944	95,994	13 579	1,657	322	6.431	51
2013	7,503	197	17.132	2,959	6.221	66.758	315	3.100	96.484	14.264	1,727	322	6.837	229
2012 2013 2014	10,809 9,891 7,855 7,503 8,123 6,718	212 194 209 197 207	18,042 17,132 19,398 19,290	3,401	6,006 6,381 6,741 7,208	64,559	314 230 115	2,944 3,100 3,631 3,790 R 3,621 R 3,879 R 3,206 R 3,132 R 2,908 R 3,113 3,096	102,466 98,496 100,186 99,028 95,994 94,051 96,484 97,309 100,307 R 95,577 R 95,076 R 96,577 R 95,756 R 80,010 R 87,286 82,500	13,994 14,397 13,579 14,264 14,343 14,643	1,667 2,547 1,657 1,727 1,616 1,623 1,392 1,965 2,831 2,188 1,697 2,117 1,780	271 322 322 324 435 527 561	6,431 6,837 6,644 6,950 6,693	18 61 51 229 235 270 429 437 250 195 206 R 168
2015 2016	6,718	215	19,290	3,183	6,381	67,432	230	3,790	100,307	14,643	1,623	435	6,950	270
2016	6,547 4,342 5,021 3,147	215 219 223	17,081	2,837	6,741	65,181	115	H 3,621	H 95,577	14,760	1,392	527	6,693	429
2017	4,342	223	16,469	2,845	7,208	64,499	106	n 3,879	P 95,006	15,107	1,965	561	6,660	437
2018 2019	5,021	301	18,103 17,760	3,037	7,384 7,376	64,233	254 102	B 2 120	B 05 750	14,988 15,013	2,831	570 520	6,604	250
2019	3,147 2,039	301 299 R 283 R 288 299	17,700 16 700	3,300 3 153	7,376 5,872	54,065 51 012	102 35/	R 2 ans	R 80 010	15,013	∠,100 1 607	520 546	6,660 6,604 6,692 5,364 6,150 5,707	195
2020 2021 2022	2.806	R 288	16,709 R 17,102	3.234	5,872 5,560 6,246	58.138	354 139	R 3.113	R 87.286	15,081 14,994	2.117	546 517 498	6.150	R 168
2022	2,806 2,545	299	16,234	3,178	6,246	53,553	193	3,096	82,500	14,811	1,780	498	5,707	129

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Maryland (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
						Petroleum					1	(as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	226.6	73.3	75.0	4.0	13.5	118.5	105.8	36.4	353.2	653.1	73.3	75.0	118.5
1965	327.4	101.0	98.8	5.6	15.7	144.5	97.5	48.0	410.2	838.6	101.0	98.8	144.5
1970 1971	311.3 274.0	159.6 164.7	115.4 116.5	6.9 7.2	25.0 22.8	195.2 204.4	138.6 187.7	47.8 49.1	528.9 587.9	999.8 1,026.5	159.6 164.7	115.4 116.5	195.2 204.4
1972	226.4	180.3	124.4	8.6	21.4	217.6	232.3	46.6	650.9	1,057.6	180.3	124.4	217.6
1973	256.8	177.6	133.5	9.4	20.4	225.2	260.5	46.2	695.3	1,129.6	177.6	133.5	225.2
1974	217.5	175.5	130.9	8.8	18.0	222.6	245.4	46.0	671.7	1,064.7	175.5	130.9	222.6
1975 1976	197.2 245.3	141.9 149.6	122.5 117.7	8.9 10.2	16.9 17.4	229.5 239.2	169.4 173.3	46.4 49.5	593.7 607.3	932.7 1,002.3	141.9 149.6	122.5 117.7	229.5 239.2
1977	189.7	135.2	126.2	10.3	18.9	246.5	165.8	49.8	617.7	942.6	135.2	126.2	246.5
1978	209.7	139.6	123.6	9.4	18.4	251.5	172.6	52.0	627.4	976.8	139.6	123.6	251.5
1979 1980	240.7 235.7	179.6 163.0	138.5 127.6	7.3 7.5	18.0 19.5	233.7 231.1	151.1 103.6	52.3 43.5	600.8 532.9	1,021.2 931.6	179.6 163.4	138.5 127.6	233.7 231.1
1981	210.4	177.2	108.4	7.5 7.4	19.7	233.3	82.6	45.3	496.6	884.2	177.7	108.4	233.3
1982	217.3	159.8	95.0	7.4	19.9	232 1	75.2	42 4	472.1	849 2	160.8	95.0	232.1
1983	232.6	148.3	107.6	7.5	21.1	232.5	68.8	48.8	486.2	867.2	148.7	107.6	232.5
1984 1985	270.2 256.2	162.8 155.6	116.8 110.4	8.8 6.7	20.3 21.7	238.6 239.7	72.2 49.8	61.2 56.4	517.9 484.6	950.8 896.4	163.1 156.0	116.8 110.4	238.6 239.7
1986	275.0	157.9	106.7	5.3	21.6	246.4	45.8	60.1	485.9	918.9	158.0	106.7	246.4
1987	288.9	174.1	113.7	6.5	21.0	253.3	57.1	64.7	516.2	979.3	174.3	113.7	253.3
1988	301.2	177.7	116.4	6.3	25.0	258.1	65.5	62.5	533.8	1,012.7	178.4	116.4	258.1
1989 1990	295.8 286.5	198.7 180.6	124.5 106.8	8.0 7.3	24.5 20.3	260.7 249.1	98.8 66.3	55.4 56.1	571.9 505.8	1,066.3 972.9	199.6 180.6	124.5 106.8	260.7 249.1
1991	274 8	183.0	108.6	7.5	18.4	254.5	61.5	42.0	492.6	950.3	183.0	108.6	254.5
1992	247.5	190.0	114.7	9.8	17.1	257.6 258.8	51.7	43.5	494.4	931.8	190.1	114.7	257.6
1993 1994	261.7 268.9	186.6 191.0	117.4 118.7	9.2 10.5	16.8 18.2	258.8 264.3	65.4 59.6	50.1 49.3	517.7 520.7	966.0 980.6	187.0 192.0	117.4 118.7	258.8 264.3
1994	289.6	198.6	111.6	10.5	19.4	267.6	25.6	48.3	482.5	970.7	192.0	111.6	267.9
1996	292.5	200.8	126.1	11.2	22.1	269.7	28.4	45.1	502.6	995.9	201.7	126.1	269.9
1997	289.7	219.0	114.0	10.8	23.2	278.7	26.5	56.4	509.6	1,018.3	219.2	114.0	279.0
1998 1999	303.9 305.2	195.5 202.5	120.2 126.5	9.2 8.2	22.2 22.3	283.8 295.7	47.6 57.1	59.9 58.6	542.9 568.4	1,042.2 1,076.1	195.5 203.0	120.2 126.5	284.0 295.9
2000	312.2	219.0	130.3	8.9	23.3	297.0	32.4	55.1	547.0	1,078.2	219.4	130.3	297.3
2001	318.9	184.8	134.6	9.5	16.6	308.2	36.3	61.2	566.4	1,070.1	185.0	134.6	308.2
2002	325.8	203.5	125.0	8.9	9.7	311.2	28.7	61.1	544.7	1,074.0	203.5	125.0	314.3
2003 2004	329.6 327.2	204.3 201.8	130.6 132.8	13.2 10.8	13.3 17.8	321.7 330.5	39.6 41.3	52.3 57.0	570.7 590.2	1,104.6 1,119.3	204.5 201.9	130.6 132.8	321.7 330.5
2005	329.3	211.8	137.6	11.9	24.7	330.3	46.7	52.7	604.0	1,145.1	212.2	137.6	335.2
2006	324.7 328.0	189.2	131.2	11.6	23.5	326.8 323.6	16.5	29.1 36.5	538.7	1,052.5	189.2	131.2	340.5
2007 2008	328.0 309.3	208.4 202.7	125.5 113.3	10.6 12.0	20.0 21.7	323.6 317.4	15.4 10.0	36.5 32.6	531.5 507.2	1,067.9 1,019.2	208.7 202.9	125.5 113.3	340.7 332.8
2009	266.9	203.6	113.5	12.2	19.0	333.9	6.5	23.1	508.1	978.6	203.8	114.3	352.0
2010	266.1	217.6	120.0	13.2	36.1	300.7	6.6	21.4	498.1	981.8	217.7	120.7	323.9
2011	241.2	199.1	110.3	13.1	37.1	296.5	4.0	19.6	480.6	920.9	199.2	111.7	318.8
2012 2013	192.3 183.2	216.6 206.1	102.6 96.3	10.0 11.4	35.6 35.3	301.1 314.1	1.9 2.0	19.0 19.4	470.1 478.4	879.0 867.7	216.7 206.2	104.0 98.7	323.4 337.8
2013	201.2	217.2	109.3	13.1	34.1	303.5	2.0	22.8	484 7	903.2	218.1	111.8	326.6
2015	166.0	226.0	108.5	12.2	36.2	316.9	1.4	23.9	499.1 R 473.8 R 471.2	891.1	226.8	111.1	341.0
2016 2017	162.9 107.0	229.5	94.8	10.9 10.9	38.2 40.9	306.2	0.7 0.7	22.8 R 24.4	H 473.8	866.2 R 810.9	230.2	98.3	329.5
2017	107.0	232.7 312.8	91.5 101.3	10.9	40.9	302.8 301.6	1.6	R 20 0	R 478 1	R 015 1	233.4 313.3	94.8 104.3	325.9 324.6
2019	77.3	211.6	99.4	12.7	41.8	300.5	0.6	H 10 5	R 478.1 R 474.5	R 863 4	3117	102.3	323.8
2020	49.7	R 294.0	93.2	12.1	33.3	239.1	2.2	H 18 1	H 398.1	H 741 8	R 294.2	96.2	257.7
2021 2022	69.2 61.9	R 299.3 310.1	R 97.3 92.5	12.4 12.2	31.5 35.4	272.2 250.5	0.9 1.2	R 19.4 19.3	R 433.2 410.7	R 801.7 782.7	R 299.4 310.6	R 98.6 93.6	293.6 270.4
2022	01.9	310.1	32.0	12.2	55.4	250.5	1.2	19.0	410.7	102.1	310.0	33.0	270.4

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Maryland (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 4.6	23.8	NA	NA	NA	NA	23.8	0.0	NA	NA	R 28.5	R 2.1	0.0	R 683.6
1965 1970	0.0 0.0	R 3.9 R 6.5	27.1 31.8	NA NA	NA NA	NA NA	NA NA	27.1 31.8	0.0 0.0	NA NA	NA NA	H 31 0	R -28.9 R 1.4	0.0 0.0	R 840.7 R 1,039.5 R 1,073.4
1971	0.0	H60	30.7	NA	NA	NA	NA	30.7	0.0	NA	NA	R 38.3 R 36.7 R 40.2	R 10.2 R -5.4 R 13.9 R -13.9 R 15.5 R 0.7 R -0.8	0.0	R 1,073.4
1972 1973	0.0 0.0	R 7.8	32.4	NA NA	NA NA	NA NA	NA NA	32.4 32.6	0.0 0.0	NA NA	NA NA	H 40.2	H -5.4	0.0 0.0	H 1 092 4
1974	0.0	R 7.4 P 6.7	32.6 31.8	NA	NA	NA	NA	31.8	0.0	NA	NA	R 40.0 R 38.5	R -13.9	0.0	R 1,183.5 R 1,089.4
1975	48.3	H 7.9	31.8	NA	NA	NA	NA	31.8	0.0	NA	NA	H 39.7	R <sub>15.5</sub>	0.0	H 1 036 1
1976 1977	70.9 117.2	R 7.1 R 6.9	34.7 38.5	NA NA	NA NA	NA NA	NA NA	34.7 38.5	0.0 0.0	NA NA	NA NA	R 41.8 R 45.4	™ 0.7 R -0.8	0.0 0.0	R 1,115.8 R 1 104 4
1978	108.3	H 5.9	41.3	NA	NA	NA	NA	41.3	0.0	NA	NA	R 45.4 R 47.2	11-93	0.0	R 1,113.8 R 1,104.4 R 1,122.9
1979	105.2	R 7.5	43.6	NA NA	NA NA	NA NA	NA NA	43.6	0.0 0.0	NA NA	NA	R 51.1 R 37.0	R 9.8	0.0	R 1,187.3
1980 1981	119.4 127.1	R 4.3 R 4.9	32.6 30.5	0.1	NA NA	NA NA	0.0	32.6 30.5	0.0	NA NA	NA NA	R 35.4 R 42.2	R 36.1 R 63.0	0.0 0.0	R 1,124.1 R 1,109.8
1982	114.6	R46	37.6 33.5	(s)	NA	NA	0.0	37.6	0.0	NA	NA	R 42.2	R 59.1 R 45.3 R 30.5 R 79.1	0.0	R 1,065.0 R 1,079.3
1983 1984	127.3 126.3	R 6.0 R 6.9	33.5 39.0	(s) (s)	NA NA	NA NA	0.0 0.0	33.5 39.0	0.0 0.0	NA 0.0	0.0	R 39.5 R 45 9	R 30.5	0.0	P 1,079.3 R 1 153.5
1985	105.4	R 6.9 R 5.2	39.0 39.2	(s)	NA	NA	0.0	39.2	0.0	0.0	0.0 0.0	R 45.9 R 44.4 R 41.5 R 36.5	R 79.1	0.0 0.0	R 1,153.5 R 1,125.4
1986 1987	135.7 105.1	R 6.4 R 5.5	35.0 31.0	(s) 0.0	NA NA	NA NA	0.0 0.0	35.1 31.0	0.0 0.0	0.0 0.0	0.0 0.0	H 41.5	H 48.8	0.0 0.0	H 1,144.8
1988	124.4	R 4 5	32.5	0.0	NA NA	NA NA	0.0	32.5	0.0	0.0	0.0	n 37.1	R 84.5	0.0	R 1,215.7
1989	28.8	R 6 1	36.8	0.0	NA	NA	0.0	36.8	0.1	(s)	0.0	R ⊿3 ∩	R 48.8 R 94.8 R 84.5 R 144.9 R 231.3 R 179.8	0.0	R 1,258.6 R 1,283.0 R 1,251.9 R 1,256.6
1990 1991	13.2 94.7	R 7.8 R 4.8	26.5 26.9	0.0 0.0	NA NA	NA NA	0.0 0.0	26.5 26.9	0.1 0.1	(s) (s)	0.0 0.0	R 34.5 R 31.8	<sup>n</sup> 231.3 R 179.8	0.0 0.0	<sup>n</sup> 1,251.9 R 1 256.6
1992	111.7	R 6.2 R 5.7 R 6.9	27.7	0.0	NA	NA	0.0	27.7	0.1	(s)	0.0	R 34.0	R 168.9 R 165.6 R 167.2 R 176.3 R 176.6 R 161.3 R 144.4 R 150.6 R 178.8	0.0	R 1,246.4 R 1,298.6
1993 1994	129.2 117.4	R 5.7	32.0 32.1	0.0 0.0	NA NA	NA NA	0.0 0.0	32.0 32.1	0.1 0.1	(s) 0.1	0.0 0.0	R 34.0 R 37.8 R 39.1	R 165.6	0.0 0.0	R 1,298.6 R 1,304.3
1994	135.9	R 4 9	36.8	0.0	NA NA	NA NA	0.0	37.1	0.1	0.1	0.0	H 42 1	R 176.3	0.0	R 1 325 0
1996	127.0	R 8.4 R 5.4	40.5	0.2	NA	NA	0.0	40.7	0.1	0.1	0.0	R 49.2 R 42.4	R 176.6	0.0	R 1,348.7 R 1,360.7
1997 1998	138.7 139.9	R 5.4	36.5 34.6	0.3 0.2	NA NA	NA NA	0.0 0.0	36.8 34.8	0.1 0.1	0.1 (s)	0.0 0.0	R 42.4 R 40.9	<sup>n</sup> 161.3 R 144.4	0.0 0.0	H 1 367 3
1999 2000	139 1	R 4.9 R 5.9	35.9 36.0	0.2 0.2	NA	NA	0.0	36.2 36.3	0.1	(s)	0.0 0.0	R 41.2 R 42.4	R 150.6	0.0 0.0	R 1,407.0 R 1,443.5
2000 2001	144.2 142.6	H 5.9 R 4.0	36.0 20.8	0.2	NA (s)	NA NA	0.0 0.0	36.3 20.9	0.1 0.1	(s)	0.0 0.0	H 42.4 R 25.1	H 178.8	0.0 0.1	H 1,443.5 R 1,438.1
2001	126.6	H 5 7	21.0	(s) 3.1	(S) (S)	NA NA	0.0	24.0	0.1	(S)	0.0	H 29.9	R 200.2 R 283.6 R 277.1 R 236.0	0.0	H 1 51/1 2
2003 2004	142.7 152.0	Rgn	27.1 28.0	(s) (s)	(s)	NA	0.0	27.1 28.1	0.2	(s) 0.1	0.0 0.0	R 36.4 R 36.9	R 277.1	0.0 0.0	R 1,560.8 R 1,544.2
2004 2005	152.0 153.4	R 8.6 R 5.8	28.0 26.3	(s) 4.9	(s) (s)	NA NA	0.0 0.0	28.1 31.2	0.2 0.2	0.1 0.1	0.0 0.0	R 36.9 R 37.3	R 240 8	0.0 0.0	R 1,544.2 R 1,576.7
2006	144.3	H 7 2	24.4	13.7 17.2	0.1	NA	0.0	38.2	0.3	0.1	0.0	R 45 7	R 240.8 R 218.1 R 220.2 R 222.9 R 245.6 R 272.4	0.0	
2007 2008	150.6 153.4	R 5.6 R 6.7	24.1 24.7	17.2 15.4	0.1 0.1	NA NA	(s)	41.4 40.2	0.3 0.4	0.1 0.1	0.0 0.0	R 47.4 R 47.4	H 220.2	0.0 0.0	R 1,486.1 R 1,443.0
2008	152.2	R 6.4 R 5.7	29.4	18.1	0.1	NA NA	(s) 0.0	40.2 47.6	0.4	0.1	0.0	R 54.6	R 245.6	0.0	R 1,443.0
2010	146.3	R 5.7	31.6	23.2	0.1	NA	(s) (s)	54.9	0.5	0.1 R 0.1	(s) R 0.9	R 54.6 R 61.2	R 272.4	0.4	R 1,431.0 R 1,462.0
2011 2012	150.7 142.3	R 8.7 R 5.7	29.2	22.3	0.3	0.0 0.0	(S)	51.9 50.6	0.5 0.6	R 0.3	7 0.9 R 1 1	R 62.3 R 58.5	R 259.9 R 276.8 R 295.5 R 272.1	0.7 0.0	R 1,394.5 R 1,356.6
2013	149.0	R 5.7 R 5.9	28.0 31.2	22.3 23.7	0.3 1.2	0.0	(s) 0.0	56.1	0.6	R 0.6 R 0.9	R 1.1 P 1.1	H 64 6	R 295.5	1.0	n 1 377 8
2014 2015	150.0 153.1	R 5.5 R 5.5	30.7 23.5	23.1 24.1	1.3	0.0 0.0	0.0 0.0	55.0 49.1	0.6 0.6	R 1.3 R 1.7	R 1.1 R 1.5	R 63.5	H 272.1 R 283.5	0.6 0.6	R 1,389.4 R 1,386.7
2015	154 4	R 4 8	23.5	23.2	1.4 2.3	0.0	0.0	R 48.6	0.6	R 2.6 R 3.5	R 1.8 R 1.9	R 58.3 R 58.4 R 60.4	R 265.5	0.6	R 1,344.8 R 1,297.0
2016 2017	158.0	H 6.7	23.1 22.1	23.2 23.2	2.3 2.3	0.0	0.0	47.6	0.6	R 3.5	R 1.9	R 60.4	R 265.5 R 267.7	(s) 0.1	R 1,297.0
2018 2019	156.7 156.8	R 9.7 R 7.5	23.0 R 17.7	23.0 23.3	1.3 1.0	0.0 0.0	0.0 0.0	47.3 _ 42.1	0.6 0.6	R 4.4 R 5.1	R 1.9 R 1.8	R 63.9 R 57.0	R 205.5 R 232.9	0.1 0.0	R 1,341.2 R 1,310.1
2020 2021	157.5	H 5.8	H 12.5	18.6	1.1	0.0	0.0	H 32.3	0.6	R 5.1 R 5.3 R 5.8	n 1.9	R 45.8	R 215.4 R 209.2	0.0	R 1,160.5 R 1,216.9
2021 2022	R 156.4 154.5	R 7.2 6.1	R 12.0 12.2	21.4 19.9	0.9 0.7	0.0 0.0	0.0 0.0	R 34.3 32.7	0.6 0.6	R 5.8 6.9	R 1.8 1.7	R 49.6 48.0	R 209.2 217.6	0.0 0.0	R 1,216.9 1,202.8
2022	104.0	0.1	12.2	19.9	0.7	0.0	0.0	32.7	0.6	0.9	1.7	48.0	217.0	0.0	1,202.8

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Maryland

	Coal Thousand short tons  5,440 6,266 3,404 2,248 894 1,381 1,301 1,258 1,209 936	Natural gas a Billion cubic feet  71 145 155 155 183 182	Distillate fuel oil <sup>b</sup>	1,051	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup> 'housand barrels	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year   s   1960   1970   1980   1990   2000   2005   2006   2007   2008   2010   2011   2012   2013   2014   2015   2016   201	5,440 6,266 3,404 2,248 894 1,381 1,301 1,258 1,209 936	71 145 155 155 183	18,872 20,807			housand barrels	3			-								
1970 1980 1990 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	6,266 3,404 2,248 894 1,381 1,301 1,258 1,209 936	145 155 155 183	18,872 20,807		0.457					Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1980 1990 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2013 2014 2015 2016	3,404 2,248 894 1,381 1,301 1,258 1,209 936	155 155 183	20,807	1.841	2,457	22,552	16,669	6,079	61,662	1					8,756			
1990 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	2,248 894 1,381 1,301 1,258 1,209 936	155 183			4,477	37,159	12,101	7,944	82,392	(s)					22,506			
2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	894 1,381 1,301 1,258 1,209 936	183		2,060	3,512	44,003	8,341	7,208	85,931	0					34,586			
2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	1,381 1,301 1,258 1,209 936		17,729	1,965	3,637	47,415	3,597	8,991	83,333	0					49,534			
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	1,301 1,258 1,209 936		21,805	2,406	4,108	57,157	1,421	8,815	95,712	0					60,678			
2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	1,258 1,209 936	160	22,453 22,158	3,188 3,111	4,362 4,144	64,553 65,673	2,105 2,028	8,762 4,629	105,423 101,743	0					68,365 63,173			
2008 2009 2010 2011 2012 2013 2014 2015 2016	1,209 936	178	20,935	2,834	3,522	66,263	1,402	5,701	100,658	0					65,391			
2009 2010 2011 2012 2013 2014 2015 2016	936	176	19,099	3,187	3,836	65,177	1,289	5,093	97,682	0					63,326			
2010 2011 2012 2013 2014 2015 2016		178	19,438	3,235	3,343	69,165	753	3,621	99,555	0					62,589			
2012 2013 2014 2015 2016	964	181	20,383	3,434	6,373	63,919	913	3,355	98,378	0					65,335			
2013 2014 2015 2016	974	173	19,015	3,410	6,549	62,976	512	3,068	95,530	0					63,600			
2014 2015 2016	925	160	17,828	2,595	6,275	63,891	261	2,944	93,796	0					61,814			
2015 2016	714	173	16,827	2,959	6,221	66,758	262	3,100	96,127	0					61,899			
2016	712	187	18,748	3,401	6,006	64,559	71	3,631	96,416	0					61,684			
	682	175	18,986	3,183	6,381	67,432	84	3,790	99,858	0					61,782			
2017	554	170	16,784	2,837	6,741	65,181	54	R 3,621	R 95,217	0					61,354			
0040	562	172	16,256	2,845	7,208	64,499	77	R 3,879	R 94,765 R 95,672	0					59,304			
2018 2019	540 471	203 202	17,658 17,623	3,037 3,300	7,384 7,376	64,233 64,085	154 68	<sup>R</sup> 3,206 <sup>R</sup> 3,132	R 95,584	0					62,086 60,721			
2019	393	R 187	16,548	3,300	7,376 5,872	51,013	337	R 2.908	R 79,832	0					57,629			
2020	405	R 190	R 16,942	3,133	5,560	58,138	104	R 3,113	R 87,091	0					59,304			
2022	425	202	15,993	3,178	6,246	53,553	107	3,096	82,173	0					59,683			
									Trillion	Btu								
1960	144.4	73.2	74.9	4.0	13.5	118.5	104.8	36.4	352.0	(s)	23.8	NA	NA	NA	29.9	623.4	R 60.2	R 683.6
1970	164.9	147.9	109.9	6.9	25.0	195.2	76.1	47.8	460.9	(s)	31.8	NA	NA	NA	76.8	882.2	R 157.3	R 1,039.5
1980	89.4	158.1	121.2	7.5	19.5	231.1	52.4	43.5	475.3	0.0	32.6	NA	NA	NA	118.0	873.0	R 251.0	R 1,124.1
1990	58.6	158.9	103.3	7.3	20.3	249.1	22.6	56.1	458.7	0.0	19.2	0.0	0.1	(s)	169.0	864.5	R 387.5	R 1,251.9
2000	22.4	189.2	126.9	8.9	23.3	297.3	8.9	55.1	520.4	0.0	23.7	0.0	0.1	(s)	207.0	962.7	R 480.9	R 1,443.5
2005 2006	33.8 31.5	190.8 166.4	130.6 128.6	11.9 11.6	24.7 23.5	335.2 340.5	13.2 12.7	52.7 29.1	568.4 546.1	0.0	19.0 16.8	0.0	0.2 0.3	0.1 0.1	233.3 215.5	1,045.2 976.6	R 531.5 R 484.0	R 1,576.7 R 1,460.6
2006	30.8	184.6	128.6	10.6	23.5	340.5	8.8	36.5	537.7	0.0	16.8	0.0 (s)	0.3	0.1	223.1	993.0	R 493.0	R 1,486.1
2008	29.4	182.4	110.4	12.0	21.7	332.8	8.1	32.6	517.7	0.0	17.0	(s)	0.4	0.1	216.1	963.1	R 479.9	R 1,443.0
2009	22.9	184.9	112.3	12.2	19.0	352.0	4.7	23.1	523.3	0.0	21.9	0.0	0.5	0.1	213.6	967.0	R 464.7	R 1,431.7
2010	23.1	186.0	117.7	13.2	36.1	323.9	5.7	21.4	518.1	0.0	24.0	(s)	0.5	R <sub>0.1</sub>	222.9	<sup>R</sup> 974.6	R 487.9	R 1,462.6
2011	22.3	177.6	109.7	13.1	37.1	318.8	3.2	19.6	501.6	0.0	22.2	(s)	0.5	H n 2	217.0	R 941.5	R 454.1	R 1,395.6
2012	20.9	165.8	102.8	10.0	35.6	323.4	1.6	19.0	492.4	0.0	20.6	(s)	0.6	R <sub>0.5</sub>	210.9	<sup>R</sup> 911.6	R 446.2	R 1,357.8
2013	15.6	180.3	97.0	11.4	35.3	337.8	1.6	19.4	502.4	0.0	23.5	0.0	0.6	H 0.7	211.2	R 934.2	R 444.8	R 1,379.0
2014	15.8	196.7	108.0	13.1	34.1	326.6	0.4	22.8	505.0	0.0	22.8	0.0	0.6	R 1.0	210.5	R 951.6	R 439.0	R 1,390.6
2015	15.0	185.0	109.4	12.2	36.2	341.0	0.5	23.9	523.2	0.0	15.7	0.0	0.6	R 1.3	210.8	R 951.0	R 436.9	R 1,387.9
2016	12.1	178.2	96.6	10.9	38.2	329.5	0.3	22.8	498.4	0.0	15.5	0.0	0.6	R 1.9		R 915.5	R 430.6	R 1,346.0
2017	12.3	180.3	93.6	10.9	40.9	325.9	0.5	R 24.4 R 20.0	R 496.2 R 500.9	0.0	14.3	0.0	0.6	R 2.6 R 3.0	202.3	R 908.2 R 955.2	R 389.7 R 387.7	R 1,297.9 R 1,342.9
2018 2019	11.9	211.9 211.5	101.7	11.7 12.7	41.9 41.8	324.6 323.8	1.0 0.4	R 19.5	R 499.7	0.0	15.3 11.1	0.0	0.6 0.6	R 3.5	211.8 207.2	R 943.6	R 368.4	R 1,342.9
2019	10.2 9.0	R 195.0	101.5 95.3	12.7	33.3	323.8 257.7	2.1	R 18.1	R 418.6	0.0	R 6.2	0.0	0.6	R 3.6	196.6	R 829.5	R 332.9	R 1.162.4
2020	5.0	R 196.8	R 97.7	12.1	31.5	293.6	0.7	R 19.4	R 455.3	0.0	R 5.3	0.0	0.6	R 3.7	202.3	R 873.3	R 344.4	R 1,217.8
2022	9.5	209.9	92.2	12.2	35.4	270.4	0.7	10.4	700.0	0.0	6.4	0.0	0.6	4.6	203.6	864.3	339.3	1,217.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Maryland

				Petro	oleum		Biomass						
_	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	169	46	6,053	498	2,234	8,785				2,772			
1965	133	46 57	7 191	722	2,177	10.090				4.384			
1970 1975	46	73 69	8,234 8,453	814	2,166	11,214 10,470				7,690 9,660			
1975	10	69	8,453	1,004	1,014	10,470				9,660			
1980	8	68 68 66	8,797	598 798	830 1,113	10,225				12,119			
1985 1990	27 10	88	5,609 5,090	798 880	1,113	7,520 6,354		==		14,319 19,102			
1990	39	77	4,923	1,331	385 535 505	6,334 6,788				22,234			
1995 2000	9	84	4,865	1,088	505	6,788 6,459				23,949			
2005	3	86	4 096	1,629	617	6 343				28 440			
2006	4	71	3,385	1.407	437	5,230				26,905			
2006 2007	4	83	3,385 3,351 3,282	1,558	437 225	6,343 5,230 5,134				26,905 28,195			
2008	0	81	3,282	1,855 1,967 2,019	92 116 146	5.229				27,144			
2009 2010	0	83 84	3,297 3,429	1,967	116	5,381 5,594				26,945 28,934			
2010 2011	0	84 78	3,429 2,685	2,019 2,063	146 77	5,594 4,824				28,934 27,296			
2011	0	76 70	2,310	2,063 1,479	29	3,818				26,678			
2012	0	83	2,768	1,732	31	4,531				27,448			
2014	ő	91	3.228	2.160	60	5.448				27,488			
2014 2015	ŏ	83	3,228 3,365	2,160 1,980	60 45	5,448 5,390				27,488 27,403			
2016	0	76	2,006	1.654	47	3,707				27,317 26,084			
2017	0	76	1,811	1,634	26	3,471				26,084			
2018	0	86	2,518	1,858	23 26	4,399				28,138			
2019 2020	0	82 77	1,771	1,901 1,894	26	3,698 3,788				27,534 27,306			
2020 2021	0	77 77	1,864 R 2,438	1,894 1,766	30 30	R 4,235				27,306 27,965			
2022	0	83	2,530	1,744	28	4,302				28,065			
	-			.,		.,	Trillion Btu						
1960	4.2	47.5	35.3	1.9	12.7	49.8	8.1	NA	NA	9.5	119.1	R 19.1	R 138.2 R 169.3 R 226.5 R 238.5
1965 1970	3.3 1.1	58.1 74.5	41.9 48.0	2.8 3.1	12.3 12.3	57.0 63.4	6.6 7.5	NA NA	NA NA	15.0 26.2	139.9 172.8	H 29.4	H 169.3
1975	0.2	70.1	49.2	3.9	5.7	58.8	9.0	NA NA	NA NA	33.0	172.6	R 29.4 R 53.7 R 67.3	R 220.5
1980	0.2	69.4	51.2	2.3	4.7	58.2	15.9	NA	NA NA	41.4	184.9	H 88 0	R 272 9
1980 1985	0.2 0.7	70.7	51.2 32.7	3.1	4.7 6.3	58.2 42.0	19.4	NA	NA	48.9	181.6	H qq q	R 272.9 R 280.8
1990 1995 2000	0.2	68.2 78.5	29.6	3.4	2.2 3.0 2.9	35.2	7.9	0.1	(s) 0.1	65.2 75.9	176.8	R 149.4 R 172.7 R 189.8	R 326.2
1995	1.0	78.5	28.6	5.1	3.0	36.8 35.4	11.8	0.1	0.1	75.9	203.7	H 172.7	H 376.5
2000	0.2	86.8	28.3	4.2	2.9	35.4	9.0	0.1	(s) 0.1	81.7	213.2	H 189.8	H 403.0
2005 2006 2007	0.1	89.9 74.0	23.8	6.3	3.5 2.5 1.3	33.6	4.6	0.2	0.1	97.0 91.8	225.3	R 221.1 R 206.1 R 212.6	T 446.4
2006	0.1 0.1	74.0 86.6	19.6 19.4	5.4 6.0	2.5	27.5 26.6	4.1 4.5	0.3 0.3	0.1 0.1	91.8 96.2	197.8 214.3	H 206.1	H 403.9
2007	0.0	84.1	19.4	7.1	1.3	26.6	5.0	0.4	0.1	92.6	208.7	R 205.7	R 414 4
2009	0.0	85.7	19.0	7.6	0.5 0.7	27.3	10.0	0.5	0.1	91.9	215.4	R 205.7 R 200.1	R 415 4
2010	0.0	86.0	19.8	7.8	0.8	28 4	10.7	0.5	0.1	98.7	22/1/	H 216 1	R 440.5
2011 2012	0.0	80.0 73.0	15.5 13.3	7.9 5.7	0.4 0.2	23.9 19.2	10.4 8.7	0.5	R 0.1	93.1	208.0	R 194.9	R 402.9
2012	0.0	73.0	13.3	5.7	0.2	19.2	8.7	0.6	0.2	91.0	_ 192.6	R 194.9 R 192.6 R 197.2	R 385.1
2013 2014	0.0	87.0	15.9	6.7	0.2	22.8	11.3	0.6	R 0.2	93.7	H 215.4	H 197.2	H 412.7
2014	0.0	95.4	18.6	8.3	0.3	27.2	11.5	0.6	R 0.4	93.8	208.0 192.6 R 215.4 R 228.4 R 214.8	R 195.6 R 193.8	R 326.2 R 376.5 R 403.0 R 446.4 R 403.9 R 414.4 R 415.4 R 440.5 R 402.9 R 385.1 R 412.7 R 424.1 R 408.6 R 389.2 R 389.2 R 389.5 R 392.5
2015	0.0 0.0	87.5	19.4	7.6	0.3	27.2	5.8	0.6	R 0.6 R 1.2	93.5	" 214.8 B 107.5	11 193.8 B 404.7	R 408.6
2016 2017	0.0	79.9 79.4	11.5 10.4	6.4 6.3	0.3 0.1	18.2 16.9	4.7 4.7	0.6 0.6	R 1.8	93.2 89.0	R 197.5 R 192.1 R 216.4	R 191.7 R 171.4	R 363 5
2017	0.0	90.2	14.5	7.1	0.1	21.8	5.9	0.6	R 2.1	96.0	R 216.4	H 175 7	R 392 1
2019	0.0	85.6	10.2	7.3	0.1	17.6	5.5	0.6	R <sub>24</sub>	93.9	R 205.6	R 167.1	R 372.7
2020	0.0	80.4	10.7	7.3	0.2	18.2	Нзв	0.6	R 2.5 R 2.5	93.2	R 205.6 R 198.4	R 167.1 R 157.7 R 162.4	R 372.7 R 356.2 R 364.9
2021	0.0	79.8	14.1	7.3 6.8	0.2 0.2	21.0	H 3.2	0.6	R 2.5	95.4	H 202.5	R 162.4	R 364.9
2022	0.0	85.8	14.6	6.7	0.2	21.4	4.5	0.6	3.3	95.8	211.2	159.6	370.8

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Maryland

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	•		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	117	8	2.357	227	72	72	2,442	5.171	NA			NA	2.696			
1965 1970	100 36	13 26	2,357 2,800 3,206	227 329 371	72 70 70	72 90 103	1,920 1,498	5,171 5,210 5,247	NA NA			NA NA	2,696 3,937 6,347			
1975	24 29	25 29	3,291	457	33	120	1,169	5,071	NA			NA	8,573			
1980 1985	29 94	29 24	2,865 2,169	273 363	20 89	121 170	1,159 252	4,438 3,044	NA NA			NA NA	9,387 9,621			
1990	94 38	24	2,489	401	48	231	548	3,717	0			(s)	11,021			
1995 2000	258 74	47 56	3,097 2,582	607 496	210 363	32 116	119 87	4,064 3,643	0			(s) (s)	23,730 26,506			
2005	74 29 38	70	1,785	725	126	34 34	98	2,767	ő			(s)	17,932			
2006 2007	33	63 71	1,802 1,188	761 588	62 41	34	48 18	2,707 1.870	0			(s) (s)	29,729 30,691			
2008	34	70	1,163	841	10	34	11	2,059	0			2	30,003			
2009 2010	27 18	69 68	1,592 1,446	792 871	31 29	34 34	3 5	2,453 2,385	0			3 9	29,806 30,771			
2011 2012	23 19	68 68 64	1,440 1,480	828 673	23 5	34 33	4	2,330 2,192	0		==	34 93	30,750 30,108			
2013	9	71	1,346	708	5	34	3	2,096	0			130	29,966			
2014 2015	7	75 70	1,596 1,535	728 662	18 9	33 1.673	3 16	2,378 3,895	0			174 190	29,804 29,959			
2016	0	71	1,087	668	14	1,693	6	3,468	0			181	29,676			
2017 2018	0	72 77	966 1.287	801 685	8 6	1,719 1,751	5 9	3,500 3,738	0			211 242	28,893 29.548		 	
2019	Ö	76	1,384	903	12	1,751 1,764	Ö	4,063	ő			275	28,893			
2020 2021	0	R 68 R 66	1,199 R 1,272	709 874	12 9	1,775 1,792	0 5	3,695 R 3,952	0			271 308	26,452 27,437			
2022	Ö	R 66 74	1,303	868	8	1,840	5	4,024	ŏ			335	27,623			
								Tril	lion Btu							
1960 1965	2.9 2.5	8.3	13.7	0.9 1.3	0.4	0.4	15.4	30.7	NA	0.2 0.1	NA NA	NA	9.2	51.3	R 18.5	R 69.9 R 86.3
1965 1970	0.9	13.3 26.5	16.3 18.7	1.3 1.4	0.4 0.4	0.5 0.5	12.1 9.4	30.5 30.5	NA NA	0.1 0.1	NA NA	NA NA	13.4 21.7	59.9 79.6	R 26.4 R 44.4	n 123 q
1975 1980	0.5 0.7	25.5 29.1	19.2 16.7	1.8 1.0	0.2 0.1	0.6 0.6	7.4 7.3	29.1 25.8	NA NA	0.2 0.4	NA NA	NA NA	29.3 32.0	84.6 88.0	R 59.7 R 68.1	R 144.3 R 156.1
1985	2.3 1.0	25.0	12.6	1.4	0.5	0.6	1.6	25.8 17.0	NA NA	0.4	NA NA	NA NA	32.0 32.8	77.5	R 66 7	R 144 2
1990 1995	1.0 6.4	24.7 48.0	14.5 18.0	1.5 2.3	0.3 1.2	1.2 0.2	3.4 0.7	21.0 22.5	0.0 0.0	1.6 3.6	0.0 0.0	(s) (s)	37.6 81.0	85.8 161.3	R 86.2 R 184.4	R 172.0 R 345.7
2000	1.9	57.5	15.0	1.9	2.1	0.6	0.5	20.1	0.0	3.4	0.0	(s)	90.4	173.3	R 210.1 R 139.4	n 383.3
2005 2006	0.7 1.0	73.1 65.2	10.4 10.5	2.8 2.9	0.7 0.4	0.2 0.2	0.6 0.3	14.7 14.2	0.0 0.0	2.7 2.8	0.0 0.0	(s) (s)	61.2 101.4	152.2 184.6	<sup>R</sup> 139.4 <sup>R</sup> 227.8	R 291.6 R 412.4
2007	0.8	73.5 72.9	6.9	2.3 3.2	0.2	0.2	0.1	9.7	0.0	2.6	0.0	(s)	104.7	191.2	R 231.4 R 227.4	H 422.6
2008 2009	0.9 0.7	72.9 71.6	6.7 9.2	3.2 3.0	0.1 0.2	0.2 0.2	0.1 (s)	10.3 12.6	0.0 0.0	2.8 3.4	0.0 0.0	(s)	102.4 101.7	189.2 190.0	R 227.4 R 221.3	R 416.6 R 411.3
2010	0.5	69.3	8.4	3.3	0.2	0.2	(s)	12.1	0.0	3.4	0.0	R (s)	105.0	190.2	н 229.8	H 420 0
2011 2012	0.6 0.5	69.4 66.6	8.3 8.5	3.2 2.6	0.1	0.2 0.2	(s)	11.8	0.0 0.0	3.6 3.7	0.0 0.0	R 0.1 R 0.3	104.9 102.7	R 190.4 R 185.1	R 219.6 R 217.3	R 409.9 R 402.4
2013	0.2	74.2	7.8	2.7	(s) (s)	0.2	(S) (S)	11.3 10.7	0.0	3.9	0.0	R <sub>0.4</sub>	102.2	H 101 7	H 215 3	H 407 0
2014 2015	0.2	78.8 74.1	9.2 8.8	2.8 2.5	0.1 (s)	0.2 8.5	(s) 0.1	12.3 20.0	0.0 0.0	3.0 2.3	0.0 0.0	R 0.6 R 0.6	101.7 102.2	R 196.3 R 199.0	R 212.1 R 211.9	R 408.4 R 410.8
2016	(s) 0.0	74.1	6.3	2.6	0.1	8.6	(s)	17.5	0.0	R 2.2	0.0	R06	101.3	H 105 5	R 208 3	H 403 7
2017 2018	0.0 0.0	75.7 80.7	5.6 7.4	3.1 2.6	(s) (s)	8.7 8.8	(s) 0.1	17.4 19.0	0.0 0.0	1.8 2.0	0.0 0.0	R 0.7 R 0.8	98.6 100.8	R 194.0 R 203.2	R 189.9 R 184.5	R 383.9 R 387.7
2019	0.0	79.8 R 70.3	8.0	3.5	0.1	8.9	0.0	20.4	0.0	1.8	0.0	Rng	98.6	R 201.5	R 175.3	R 376.8
2020 2021	0.0 0.0	R 70.3 R 68.7	6.9 7.3	2.7 3.4	0.1 0.1	9.0 9.0	0.0 (s)	18.7 19.8	0.0 0.0	1.8 1.3	0.0 0.0	R 0.9 R 1.1	90.3 93.6	R 181.9 R 184.4	R 152.8 R 159.4	R 334.7 R 343.8
2021	0.0	76.8	7.3 7.5	3.4	(s)	9.0	(S)	20.2	0.0	1.3	0.0	1.1	94.3	193.6	157.0	350.7
					.,		, ,									

a Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Maryland

					Petro	leum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
<b>Y</b> ear	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion :Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
960 965	5,067	16 28	2,093 3,177	317	670	10,333 8,296	3,177	16,589	1				NA	3,269			_
965	6,101	28	3,177	412	439	8,296	4,904	17,228					NA	5,073			-
970 975	6,174 3,854	44 43	3,248 3,434	624 888	261 293	6,672 4,983	5,100 6,015	15,904 15,614	(s)			==	NA NA				-
980	3,367	54	3,297	1.163	145	2.669	5 874	13,148	0		==	==	NA NA	13,057	==	==	_
985 990	2,846	55 62	2.844	584 633	299 297	1,022 1,224	7,581 8,166	12,329 12,378	0				NA	15,312			-
990	2,200	62	2,059		297	1,224	8,166	12,378	0				(s) (s)	19,308			_
995 000	760 810	49 40	1,737 2,109	701 747	328 251	728 547	6,594 7,584	10,089 11,238	0				(S)	10,057 10,066			
005	1,349	24	2,062	788	976	847	7,584 7,622	12,295	ő				(s)	21,517			_
006	1,259	23	2,137	899	1,034	758	3 756	8.584	0				(s)	6,057			-
007	1,221	20	1,542	647	1,040	654 517	5,054 4,656	8,937	0				(s)	5,980			-
008 009	1,175	21 24	1,723 1,179	415 420	885 849	517 325	4,656 3,166	8,197 5,939	0				(S) (S)	5,650 5,286			-
)10	909 945	23	1,072	534	757	325 182	2,712	5,257	0				(s)				_
)11	951	21	1.271	507	792	253	2 534	5,358	0				`í	5,007			-
12	906 705	18	1,200 964	432 503	754 787	80 63	2,508 2,653	4,975	0				3	4,500			-
)13 )14	705 705	14	964 1,168	495	787 826	63 38	2,653 3,120	4,971 5,647	0				4 6	3,944 3,848			-
)15	681	15 15	1,119	517	531	17	3 275	5 458	0				13				
116	554	15	1,063	486	559	21	R 3,134	R 5 263	Ö				35	3,821			
17	562	16	922	370	567	15	R 3,452	R 5,325 R 4,760	0				33 37	3,798			
)18 )19	562 540 471	16	949 1,150	433 443	578 575	6 6	R 3,134 R 3,452 R 2,794 R 2,724	R 4,760	0				37	3,870 3,718			
)20	393	18 17	937	517	581	0	R 2,556	R 4,591	0				36 30	3,718			
)21	393 405	19	1,030	565		9	R 2,642	R 4,821	ŏ				28				
)22	425	16	1,041	521	598	9	2,658	4,827	0				29	3,602			-
									Trillion Bt	u							
960	135.0	16.6	12.2 18.5	1.2 1.6	3.5	65.0	20.0	101.9	(s)	15.6	NA	NA	NA	11.2	280.1	R 22.5 R 34.0	R 302 R 367
965	162.4	28.3 44.9	18.5 18.9	1.6	2.3	52.2 41.9	31.0	105.5 96.2	(s)	20.4 24.1	NA NA	NA NA	NA NA	17.3	333.9	H 34.0	H 36
70 75	162.7 102.2	44.9	20.0	2.3 3.1	1.4 1.5	41.9 31.3	31.7 37.6	96.2	(s) 0.0		NA NA	NA NA	NA NA		356.7 292.9	R 59.2 R 63.2	R 41 R 35
80	88.6	55.5	19.2	4.1	0.8	16.8	35.9	76.7	0.0	16.4	NA	NA	NA	44.6	281.5	H 94 8	H 37
85	74.8	56.5	16.6	2.0	1.6	6.4	47.4	74.0	0.0		0.0	NA	NA		276.6	R 106.2 R 151.0 R 78.1 R 79.8	R 38
90	57.4	63.5	12.0	2.2		7.7	51.4	74.8	0.0		0.0	0.0	(s)	65.9	271.3	<sup>n</sup> 151.0	R 42
95 00	19.2 20.3	50.2	10.1 12.3	2.4 2.6	1.7 1.3	4.6 3.4	42.0 48.0	60.8 67.6	0.0		0.0 0.0	0.0 0.0	(s) (s)	34.3 34.3	175.7 174.8	11 /8.1 R 70 8	R 25 R 25 R 38
05	33.0	41.4 24.9	12.0	2.7	5.1	5.3	46.2	71.3	0.0		0.0	0.0	(s)	73.4	214.3	11 1b / 3	1138
06	30.4	23.9	12.4	3.1	5.4	4.8	24.2	49.8	0.0	9.9	0.0	0.0	(s)	20.7	134.6	R 46.4	rt 18
07	29.9	21.2	8.9	2.2	5.3	4.1	32.7	53.3	0.0		(s)	0.0	(s)	20.4	134.2	R 45.1 R 42.8	R 17 R 17
08 09	28.5 22.2	21.9 24.8	10.0	1.4 1.4		3.2 2.0	30.1 20.5	49.2	0.0 0.0		(s) 0.0	0.0 0.0	(S)	19.3 18.0	128.1 108.5	H 20.8	H 1/
10	22.6	24.0	6.8 6.2	2.1	3.8	1.1	17.6	35.0 30.8	0.0		(s)	0.0	(s)	17.3	104.7	R 39.2 R 38.0	R 14
1	21.7	21.8	7.3	1.9	4.0	1.6	16.5	31.4	0.0	8.3	(s)	0.0	(s)	17.1	100.2	H 35.8	H 13
12	20.4	18.3	6.9	1.7	3.8	0.5	16.4	29.3	0.0	8.3	(s)	0.0	(s)	15.4	R 91.6	R 32.5 R 28.3	R 12
13 14	15.4 15.6	14.6 15.5	5.6 6.7	1.9 1.9		0.4 0.2	16.7 19.8	28.6 32.8	0.0		0.ó 0.0	0.0	(s) R (s) R (s) R 0.1	13.5 13.1	80.3 R 95.4	11 28.3 R 27 4	R 10 R 11
14 15	15.0	15.6	6.4	2.0		0.2	20.8	32.8	0.0		0.0	0.0	R (s)	13.1	R 85.4 R 83.6 R 80.8	R 27.4 R 27.5 R 26.8	Ë 11
16	12.1	16.2	6.1	1.9	2.8	0.1	19 9	30.9	0.0	8.5	0.0	0.0	B 0.1	13.0	R 80.8	R 26.8	R 10
17	12.3	16.5	5.3	1.4		0.1	R 21.9	R 31 6	0.0	7.8	0.0	0.0	H 0.1	13.0	H 81 1	H 25 0	R 10
18 19	11.9	16.9	5.5	1.7	2.9	(s)	R 17.6 R 17.1	R 27.7 R 28.4	0.0		0.0	0.0	R 0.1 R 0.1	13.2 12.7	R 77.3 R 74.3	R 24.2 R 22.6	R 10 R 9
119	10.2 9.0	19.2 17.8	6.6 5.4	1.7 2.0		(s) (s) 0.0	R 16 1	R 26.4	0.0		0.0	0.0	R 0.1	12.7	R 65 6	R 19.5	Rg
)21	9.5	19.4	5.9	2.2	2.9	0.1	<sup>rt</sup> 16.7	R 26.4 R 27.8	0.0	0.8	0.0	0.0	R 0.1	11.9	R 65.6 R 69.5	H 20.2	R 8
)22	9.4	16.8	6.0	2.0	3.0	0.1	16.7	27.8	0.0		0.0	0.0	0.1	12.3	67.0	20.5	8

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

M Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Maryland

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
ear	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
0	87	1	279	2,352 3,774	9	2,457	318	21,810	3,893	31,117	19			
5	20	1	474 309	3,774 4,184	10 32	2,856 4,477	310 299	26,981 36,795	5,024 3,931	39,429 50,027	0			
0 5	10 1	2	205	4,164 5,244	32 46	2,973	307	43,275	2 807	54,856	ñ			
0	ó	4	173	5 848	26	3,512	310	43,737	4,514 1,511 1,825	58 121	23 75 102			
5	0	2	76 74	7,506 8,091	60 52	3,901	282 318	45,163	1,511	58,499 60,883	75			
5	0	2	74 48	8,091	52 48	3,637 3,430	318	46,887	1,825	60,883	102 137			
)	0	3	40	8,744 12,248	76	4,108	303 324 273	51,115 56,790 63,544	931 787 1,160	64,619 74,373 84,018	156			
5	ŏ	š	40 123	14 510	46	4,362	273	63,544	1,160	84,018	477			
6 7	0	3	108	14,835 14,853 12,931 13,370	44	4,144	266 275 255 229	64.605	1,221 730 761	85,222 84,717 82,197 85,783	482			
	0	3	107	14,853	41	3,522	2/5	65,189	/30	84,/1/	524			
	0	3	80 78	12,931	76 56	3,836 3,343	255 229	64,257 68,281	425	82,197 85,783	524 529 553			
	0	7	45	14,436	11	6,373	424	63.128	726 255 180	85.143	547			
	Ö	6	42	13,619	11	6,549	424 392	63,128 62,150	255	85,143 83,018	547 547			
	0	8	40	12,838	11	6,275	362	63 103	180	82 811	528			
	0	4 7	35 49	11,749 12,756	15 18	6,221 6,006	3/6	65,937 63,700	196	84,529 82,944	541 544			
	0	7	35	12,756	24	6,381	376 385 427	65,228	196 30 51	02,944 85 115	544 536			
	0	8	37	12,628	29	6.741	R 389	62,929	27	R 82.780	540			
	Ö	8	37 39	12,628 12,557	29 40	6,741 7,208	R 354	62,929 62,214	27 58	R 82,468	540 529			
	0	23	45	12.903	61	7,384	R 389 R 354 R 338 R 325	61,905 61,745	138 63 337	R 82,774	530			
	0	26	46	13,318	52 34	7,376	n 325	61,745	63	n 82,925	575			
	0	23 26 25 28	45 46 42 45	12,548 R 12,201	34 29	5,872 5,560	R 269 R 289	48,657 55,771	91	85,115 R 82,780 R 82,468 R 82,774 R 82,925 R 67,758 R 74,083	575 489 422			
	ŏ	29	47	11,120	45	6,246	280	51,115	93	69,021	392			
							Tri	llion Btu						
0 5	2.3	0.9 1.2 2.1	1.4	13.7 22.0	(s) (s) 0.1	13.5	1.9	114.6	24.5	169.6	0.1	172.8	R <sub>0.1</sub>	17 21
	0.5 0.2	1.2	2.4 1.6	22.0	(S)	15.7 25.0	1.9 1.8	141.7 193.3	31.6 24.7	215.4 270.8	0.0 0.0	217.1 273.1	0.0 0.0	2
		2.2	1.0	30.5	0.1	16.5	1.9	193.3 227.3	17.6	295.1	0.0	297.3	0.0	2
	(s) 0.0	4.0	0.9	34.1	0.1	19.5	1.9 1.7	229.8	28.4	314.5	0.1	318.6	0.2 R 0.5	3
	0.0	2.3	0.4	43.7	0.2	21.7	1.7	237.2	9.5	314.5	0.3	317.0	H 0.5	ь;
	0.0	2.5 3.0	0.4 0.2	47.1 50.9	0.2	20.3 19.4	1.9 1.8	246.3 266.0	11.5	327.7 344.5	0.3 0.5	330.5 347.9	R 0.8	R.
	0.0 0.0	3.0	0.2	71.3	0.2 0.3	23.3	2.0	295.4	5.9	397.3	0.5	401.4	R 1.1	R.
	0.0	3.5 2.9 3.4	0.6	84 4	0.2	24.7	1.7	329.9	4.9 7.3 7.7	448.8	1.6 1.6	453.4	1.1 R 1.2 R 3.7 R 3.7 R 4.0 R 4.0	R R R R R
	0.0	3.4	0.5	86.1	0.2	23.5	1.6	329.9 335.0	7.7	454.6	1.6	459.7	R 3.7	R,
	0.0	3.4	0.5	85.9 74.7	0.2	20.0 21.7	1.7 1.5	335.2	4.6	448.0	1.8	453.3	H 4.0	H,
	0.0 0.0	3.5 2.8	0.4 0.4	74.7 77.2	0.3 0.2	21.7 19.0	1.5	328.1 347.6	4.8 2.7	431.6 448.4	1.8 1.9	437.1 453.1	'' 4.0 R 4 1	R Z R Z
	0.0	6.7	0.4	83.4	(s)	36.1	1.4 2.6	319.9	4.6	446.8	1.9	455.3	R 4.1	R
	0.0	6.5	0.2	78.6	(s) (s) (s) 0.1	37.1	2.4	314.7	1.6	434.6	1.9 1.8	442.9	R 3.9	R ,
	0.0	7.9 4.5	0.2 0.2	74.0	(s)	35.6 35.3	2.2	319.4	1.1	432.6 440.4	1.8	442.3	R 3.8	R A
	0.0	4.5	0.2	67.7	0.1	35.3	2.3	333.6	1.2	440.4	1.8	446.7	H 3.9	H A
	0.0 0.0	6.9 7.8	0.2 0.2	73.5 74.7	0.1 0.1	34.1 36.2	2.4 2.2 2.3 2.3 2.6 R 2.4	322.3 329.9	0.2 0.3	432.7 443.9 R 431.9	1.9 1.8	441.5 453.6	R 4.1 R 4.39 R 3.8 R 3.9 R 3.8 R 3.8 R 3.8 R 3.5 R 3.5	R Z
	0.0	8.0	0.2	72.7	0.1	38.2	R 2.4	318.1	0.3	R 431 9	1.8	441.7	R 3.8	R Z
	0.0	8.7	0.2	72.3	0.2	40.9	2.1 2.0	314.4	0.4	430 4	1.8	440.9	R 3.5	R A
	0.0	24.1	0.2	74.3	0.2	41.9	2.0	312.9	0.9	432.4 R 433.3	1.8	458.3	R 3.3	H Z
	0.0	27.0	0.2	76.7	0.2	41.8	2.0	311.9	0.4	H 433.3	2.0	462.2	H 3.5	H ⊿
	0.0 0.0 0.0	26.5 28.8 30.5	0.2 0.2 0.2	72.2 R 70.3	0.1 0.1	33.3 31.5	1.6 R 1.8 1.7	245.8 281.6	2.1 0.6 0.6	355.4 R 386.7 360.7	1.7 1.4	383.6 R 416.9 392.5	R 3.5 R 2.8 R 2.5 2.2	R 3 R 4
2									un					

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Maryland

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	3,088	(s)	16	0	166	182	0	1,356		0	NA	NA	0	_
965 970	6,018	(s) (s) 11	26 945	Ō	269	295	0	1,140		0	NA	NA	0	-
970 975	5,950 3,873	11	945 688	0	9,946 17,982	10,891 18,669	0 4,386	1,906 2,311		0	NA NA	NA NA	0	-
975 980	5,908	(s) 5	1,111	0	8,139	9,250	4,366 10 947	1,270		0	NA NA	NA NA	0	-
985	7,046	1	830	Ö	5,131	5,961	10,947 9,926	1.524		Ö	0	0	Ö	-
990	8.945	21 19 29 20	598 674 582	0	6,945 2,287	7.543	1,251 12,938	2,299 1,442		0	0	0	0	-
995	10,141	19	674	0	2,287	2,961	12,938	1,442		0	0	0	0	-
)00 )05	11,327 11,710	29	582 1,196	0	3,733 5,328	4,316 6,524	13,827 14,703	1,733 1,704		0	0	0	0	-
006	11,710	22	449	0	594	1.044	13.830	2.104		0	0	0	0	-
006 007	11,638 11,884	22 23	764	Ö	594 1,044	1,808	13,830 14,353	2,104 1,652		Ö	Ö	Ö	Ö	-
800	11.065	20	510	0	304	814	14.679	1.974		0	0	0	0	
009	9,805	18	351 512	0	280	630 650	14,550 13,994	1,889 1,667		0	0	0	0	-
)10 )11	9,846 8,917	31	348	0	139	650	13,994	2,547		0	(s)	271	111 204	
012	6,930	49	214	0	42	256	14,397 13,579	1,657		0	21	322	0	
)13	6,789	21 49 25 20	214 304	Ō	116 42 53	464 256 357	14,264	1,727		0	60 95	322 322	299	
014	7,411	20	650	0	243	893	14,343	1.616		0	95	324	180	
015	6,036	40	303	0	145	449 359	14,643	1,623		0	112	435 527	190	
)16 )17	5,993 3,780	49 51	298 212	0	61 28	359 241	14,760 15,107	1,392 1,965		0	202 261	527 561	116	
)17 )18	3,760 4 481	98	445	0	100	545	14 988	2 831		0	386	570	16	
018 019	4,481 2,676	98 96	445 137	ŏ	34	545 172	14,988 15,013	2,831 2,188		ŏ	386 477	520	Ö	-
020	1,646	95	161	0	17	178	15,081	1,697		0	511	546	0	
2021	2,401	95 99 97	160	0	35 86	195	14,994	2,117		0	615	517	0	-
2022	2,119	97	240	0	86	327	14,811	1,780		0	694	498	0	-
							Trillion Btu	D						D
960	82.2 158.7	0.1 0.1	0.1	0.0	1.0 1.7	1.1	0.0	R 4.6	0.0	0.0	NA	NA	0.0 0.0	R 88
965 970	146.4	11.7	0.1	0.0 0.0	62.5	1.8 68.0	0.0 0.0	R 3.9 R 6.5 R 7.9	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	R 162 R 232
975	94.2	0.4	4.0	0.0	113.0	117.0	48.3	R 7.9	0.0	0.0	NA	NA	0.0	R 26
980	146.3	5.4	5.5 4.0 6.5 4.8	0.0	51.2	57.6	119.4	R 4.3 R 5.2	0.0	0.0	NA	NA	0.0 0.0 0.0	R 26 R 33 R 32
985	178.4	1.4	4.8	0.0	32.3	37.1	105.4	H 5.2	0.2	0.0	0.0	0.0	0.0	H 32
990 995	227.9 262.9	21.7	3.5 3.9	0.0	43.7	47.1	13.2 135.9	R 7.8 R 4.9	7.3	0.0	0.0	0.0	0.0 0.0	R 32 R 45
995	289.7	19.5 30.1	3.4	0.0 0.0	14.4 23.5	18.3 26.9	144.2	R 5 a	10.1 12.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0	R 50
005	295.5	21.5	7.0	0.0	33.5	40.5	153.4	R 5.9 R 5.8 R 7.2	7.3	0.0	0.0	0.0	0.0	R 52
005 006	295.5 293.2	21.5 22.8	7.0 2.6	0.0	33.5 3.7	40.5 6.3	153.4 144.3	R 7.2	7.3 7.6	0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 52 R 48
007	297.2	24 1	4.4 2.9 2.0 3.0	0.0	6.6	11.0	150.6	H 5.6	7.5	0.0	0.0	0.0	0.0	R 49 R 47 R 43 R 43
008 009	279.8	20.5 18.9	2.9	0.0	1.9	4.9 3.8	153.4 152.2	R 6.7	7.7 7.4	0.0	0.0	0.0 0.0	0.0 0.0	n 4/
010	244.0 242.9	31.8	2.0	0.0 0.0	1.8 0.9	3.8	152.2	1 6.4 R 5.7	7.4	0.0 0.0	0.0 (s)	0.0	0.0	R 43
011	218.9	21.6	2.0	0.0	0.7	2.7	150.7	R 8.7	7.0	0.0	(s)	(s) R <sub>0.9</sub>	0.7	R 41
)12	171.4	50.9	2.0 1.2	0.0	0.3	1.5	142.3	R 5.7	7.4	0.0	R 0.1 R 0.2	R 1.1 R 1.1	0.0	R 41 R 38
013	167.6	25.9	1.8	0.0	0.3	1.5 2.1	149.0	R 6.4 R 5.7 R 8.7 R 5.7 R 5.9	7.7	0.0	R 0.2	R 1.1	1.0	н 36
014	185.4 151.0	21.4	3.7 1.7	0.0	1.5 0.9	5.3 2.7	150.0 153.1	R 5.5 R 5.5	7.9 7.8	0.0	R 0.3 R 0.4	R 1.1 P 1.5	0.6 0.6	R 37 R 36
015 016	151.0 150.8	41.8	1./ 1.7	0.0 0.0	0.9 0.4	2.7	153.1 154.4	R 4.8	7.8 7.6	0.0 0.0	R 0.4	<sup>n</sup> 1.5 R 1.8	0.6 0.4	H 27
017	94.7	52.0 53.1	1.7	0.0	0.4	1.4	154.4	R 6 7	7.8 7.8	0.0	R 0.7	R 1.0	(s)	R 32
018	112.3	101.3	1.2 2.6	0.0	0.6	3.2	156.7	R 6.7 R 9.7	7.7	0.0	R 0.9 R 1.3	R 1.9 R 1.9	(s) 0.1	R 39
019	67.1	100.2	0.8	0.0	0.2	1.0	156.8	R 7.5	6.7	0.0	R16	R 1.8	0.0	R 34
020	40.7	99.2	0.9	0.0	0.1	1.0	157.5	R 7.5 R 5.8 R 7.2	6.4	0.0	R 1.7	H 1.9	0.0	R 32 R 39 R 34 R 31 R 33
021 022	59.7 52.5	102.7 100.7	0.9 1.4	0.0 0.0	0.2 0.5	1.1 1.9	R 156.4 154.5	<sup>H</sup> 7.2 6.1	6.7 5.8	0.0 0.0	R 2.1 2.4	R 1.8 R 1.9 R 1.8 1.7	0.0 0.0	н 33 32
JCC	32.3	100.7	1.4	0.0	0.3	1.9	104.5	0.1	0.0	0.0	2.4	1.7	0.0	32

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Massachusetts

						Detrolous								
						Petroleum				_				
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
V	Thousand	Billion				The							Th	d b a
Year	short tons	cubic feet				Thousand barrels				IV.	illion kilowatthour	'S	Inousan	d barrels
1960	4,559	78	51,240	1,148	1,209	34,993	39,108	11,024	138,722	34	982	0	NA NA	NA
1965 1970	4,932 910	114 147	55,825 59,239	1,511 1,820	3,166 7,864	39,752 49,527	54,207 86,130	9,904 7,015	138,722 164,366 211,594 213,789 223,535 224,187 199,957 194,096 209,287 206,294	966 1,209	664 753	0	NA NA	NA NA
1971	535 317	156 160	61.616	1.852	8.642	50.827	83,869 87,842	6.983	213,789	1.435	706	0	NA	NA
1972 1973	317 221	160 156	64,284 64,628	2,164 2,131	8,904 9,027	53,634 55,596	86 191	6,707 6,614	223,535 224 187	1,499 5,120	859 560	0	NA NA	NA NA
1974 1975	1,119	155 154	60,575	2,061 2,315	8,220	54,280 54,630	69,100 65,975	5,722	199,957	2,885 3,781	428 417	Ŏ	NA	NA
1975 1976	1,016	154	58,665 62,879	2,315	8,009 8,032	54,630 56,310	65,975	4,504 5,126	194,096	3,781	417	0	NA NA	NA
1977	170 167	156 160	61.008	2,556 2,984	8,773	56.962	74,384 71,513	5.054	206,294	3,664 3,675	490 422	0	NA	NA NA
1978	131	161	58,788 43,445	2,785 2,234	8.470	57,539 55,533	69,849	4,971 4,503	202,401 171,979	5,570 6,077	214	0	NA	NA
1979 1980	185 874	156 183	43,445 37,613	2,234 2,125	8,734 8,573	55,533 51,443	69,849 57,530 54,143	4,503 4,052	1/1,9/9 157 949	6,077 3,232	438 158	0	NA NA	NA NA
1981	1,035 3,422	185	32,035 31,906	2,572	7,992 7,360	52,079	49,418 42,111	3,988	157,949 148,085 139,716	4,331	430 252	ŏ	13	NA NA
1982	3,422	195 192	31,906	2.157	7,360 7,280	51.956	42,111	4,226	139,716	4,173	252	0	1	NA NA
1983 1984	3,660 4,403	209	31,557 36,779	2,169 1,721	6,899	52,559 53,880	35,005 37,554	3,452 4,260	132,023 141,092	6,063 1,035	278 297	0	(s) 0	NA NA
1985	4.176	219	36.020	1,719 2,279	6.984	54.847	36.075	3.836	139,480 157,579	6,133 2,420	262 392	Õ	Ō	NA
1986 1987	3,785 4,487	186 227	38,697 42,152	2,279 2,634	6,913 7,850	56,380 57,692	49,646 38,070	3,664 3,974	152 272	2,420 1,136	392 310	0	0	NA NA
1988	4,463	211	40,881	2,634 2,373	9,320	59,344	38,420 38,030	3,938	154,277	1,117	212	ő	ő	NA
1989	4,670	251	43.762	2.567	10.005	58.290	38,030	3.541	156,196	3,015	404	0	0	NA NA
1990 1991	4,370 4,494	264 273	38,606 37,398	2,631 1,919	9,806 9,398	56,125 54,488	31,948 30,503	3,354 3,892	154,277 156,196 142,469 137,598	5,070 4,417	1,249 1,115	0	0	NA NA
1992 1993	4,295 3,852	332 338	39,725 38,457	1,869 2,102	7,880 7,728	55,436 56,065	27,315 24,276	3,590 3,492	135,815 132,120 128,459 121,743 122,109	4,742 4,339	1,011 882	Õ	Ō	NΔ
1993 1994	3,852 3,970	338 372	38,457 38,311	2,102	7,728 7,433	56,065 56,871	24,276 20,988	3,492 2,802	132,120	4,339 3,859	882 938	0	(s) 0	NA NA
1995	4,149	382 377	37,278	2,056 2,143	6,636	58,775	13,869	3.042	121,743	4,486	869	0	0	NA NA
1996	4,498	377	34.449	2,563	6.873	59.794	15.396	3.034	122,109	5.324	1.189	0	0	NA
1997 1998	4,891 4,373	403 359	34,545 32,837	2,109 1,969	7,301 7,736	60,912 62,284	22,386 25,658	2,764 2,922	130,017 133,405 129,118 133,678	4,310 5,698	1,032 1,030	0	0	NA NA
1999 2000	4,509 4,556	345	32,766 37,019	2,295	8,081 8,204	63,433 65,029	19,248 16,653	3,294 3,850	129,118	4,518 5,512	975	ő	ő	NA
2000	4,556	343	37,019	2,295 2,923 2,910	8,204	65,029	16,653	3,850	133,678	5,512	1,065	0	0	NA
2001 2002	4,429 4,735	349 393	38,599 37,750	2,910 2,315	7,003 5,609	65,358 67,106	16,347 12,843	3,558 3,486	129 109	5,144 5,769	703 875	0	21	2
2003	4.498	404	37,750 39,799	2 608	6.396	66.973	13 762	3.000	133,775 129,109 132,538	4 978	975 1,065 703 875 1,075 998 1,042	ő	21	1
2004 2005	4,446 5,136	373 378	37,923 37,668	1,962 2,875	8,235 9,025	68,242 68,048	14,152 14,379	3,023 3,018	133,537 135,014	5,939 5,475	998	0	200 1,760	3
2005	4 843	371	32,642	3.681	8.387	68.400	6.504	3,012	122.625	5,830	1,513	0	4 760	29
2006 2007	5,229	409	32,642 32,524	3,681 3,362 2,878	8,387 8,235	68,400 70,647	6,504 7,011	3,012 2,345	124,125	5,830 5,120	1,513 797	Ó	6,104	39
2008 2009	4,664 3,941	407 396	30,872 29,473	2,878 2,574	11,060 6,205	68,020 66,453	5,015 2,605	1,457 3,372	119,303	5,869 5,396	1,156 1,201	4	5,089 5,647	33
2010	3 563	432	32,437	2 387	8 553	66,453 66,604	1 285	3 464	114,730	5 918	996	22	7 068	29
2011	1,824	449	32,437 30,773	2,835 2,388	8,617 8,567	66,015 65,485	969 644	3,336 3,054	133,014 122,625 124,125 119,303 110,682 114,730 112,545 105,809	5,085 5,860	1,149 912	22 61 90	6,821 6,623	3 10 29 39 33 35 29 98 73 402 354 402
2012 2013	1,015 1,778	416 421	25,672 30,005	2,388 2,858	8,567 8,794	65,485 65,312	644 861	3,054 3,352	105,809 111 182	5,860 4,331	912 902	90 205	6,623 6,727	73 402
2014	1,301	421 422 444	30,005 29,132 29,937	2,858 3,195 2,952	9,270	65,312 64,226 66,309	861 1,351 1,085	3,637	111,182 110,812	4,331 5,769	992 902 827	205 225 215	6,727 6,672 6,909	354
2015	1,050 911	444	29,937 25,072	2,952	9,808	66,309	1,085	3,352 3,637 3,558 R 3,610 R 3,629 R 3,418 R 3,299	113,648 R 110,641 R 111,088 R 113,773 R 113,083	4,995 5,414	827	215	6,909	420
2016 2017	911 563	428 449	25,072 25,660	2,751 2,913	11,400 12,271	67,054 65,943	755 672	R 3.629	R 111.088	5,414 5,047	713 1,037	216 233	6,945 6,863	630 681
2018	4	439	27.361	3.317	12.643	66,415	619	R 3,418	R 113,773	4,442	1,134	221 211	6,855 6,860	377
2019 2020	3	430 389	26,850 24,601	3,670 3,398	13,633 5,600	65,279 52,176	352 67	H 3,299 R 3,287	H 113,083 H 89,128	2,177 0	1,134 976 844	211 238	6,860	295
2021	0	393	R 26,144	3,398 3.351	7,643	52,176 58,366	335	R 3,574	R 99,413	0	1.118	209	5,534 6,231 6,254	377 295 304 R 257
2022	Ö	393 420	26,616	3,351 3,253	10,848	58,443	733	3,655	103,548	Ö	1,118 877	216	6,254	212

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

distillate fuel oil. Excludes biofuels product supplied.

Chydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes herosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Massachusetts (trillion Btu)

	(trilloi	i blu)											
					Fossi	l fuels						Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol a	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1000	110.7	90.6	200 5	4.4	6.7	100.0	045.0	64.9	904.1	1 002 4	90.6	200 5	102.0
1960 1965	118.7 127.9	80.6 115.7	298.5 325.2	4.4 5.8	6.7 17.8	183.8 208.8	245.9 340.8	64.8 57.9	804.1 956.3	1,003.4 1,200.0	80.6 115.7	298.5 325.2	183.8 208.8
1965 1970	21.4	149.1	325.2 345.1	6.9	44.5	208.8 260.2	541.5	42.4	956.3 1,240.5	1,411.0	149.1	345.1	260.2
1971	13.1	158.3	358.9	7.0	48.9	267.0	527.3	42.3	1,251.3 1,307.3	1,422.7	158.3	358.9	267.0
1972	7.7	162.2	374.5	8.1	50.4	281.7	552.3	40.4	1,307.3	1,477.2	162.2	374.5	281.7
1973	5.2	157.3	376.5 352.9	7.9 7.7	51.1	292.0 285.1	541.9	40.5	1,309.9 1,161.5	1,472.3	157.3 156.7	376.5 352.9	292.0
1974	26.4	156.7	352.9	7.7	46.5	285.1	434.4	34.9	1,161.5	1,344.6	156.7	352.9	285.1
1975 1976	24.5	154.6 157.2	341.7	8.6 9.4	45.3 45.5	287.0	414.8 467.7	27.2 31.0	1,124.6 1,215.6 1,195.2	1,303.6 1,376.8	154.6 157.2 161.5	341.7 366.3	287.0 205.8
1977	4.0 4.0	161.5	366.3 355.4	10.9	49.6	295.8 299.2	467.7 449.6	30.5	1 195 2	1,360.6	161.5	366.3 355.4	295.8 299.2
1978	3.2	162.0	342 4	10.1	47.9	302.3	439.1	29.8	1,171.7	1.336.9	162.0	342.4	302.3
1979	3.2 4.6	157.9	253.1	8.1	49.4	302.3 291.7	439.1 361.7	29.8 26.9	1,171.7 990.9	1,336.9 1,153.4	162.0 157.9	342.4 253.1	302.3 291.7
1980	22.8	169.9	219.1	7.8	48.5	270.2	340.4	24.1	910.0	1.102.8	185.5	219.1	270.2
1981	26.6	165.4	186.6	9.3	45.2	273.6 272.9	310.7	23.8	849.2	1,041.2	187.5 199.8	186.6	273.6
1982	89.6 96.9	181.8	185.9 183.8	7.8 7.9	41.6 41.2	272.9	264.8	25.3	798.3	1,069.7 1,032.0	199.8 196.6	185.9 183.8	272.9
1983 1984	96.9 116.0	185.6 208.3	183.8 214.2	7.9 6.4	41.2 39.0	276.1 283.0	220.1 236.1	20.5 25.0	749.6 803.7	1,032.0 1,128.0	196.6 215.0	183.8 214.2	276.1 283.0
1985	110.0	200.3	200.8	6.4	39.5	203.U 288 1	226.8	22.6	793.3	1,126.0	224.8	214.2	203.U 288 1
1986	99.8	188.8	209.8 225.4 245.5	8.4	39.1	288.1 296.2 303.1	312 1	21.8	903.1	1,191.6	191.2	209.8 225.4 245.5	288.1 296.2
1987	117.6	232.0	245.5	9.8	44.4	303.1	312.1 239.3	24.0	903.1 866.1	1.215.7	233.4	245.5	303.1
1988	116.9	216.4	238.1 254.9 224.9	8.9	52.7	311.7	241.5	24.1	877.1 888.0	1,210.3 1,270.2	217.3	238.1 254.9	311.7
1989	121.9	260.3	254.9	9.7	56.6	306.2	239.1	21.5	888.0	1,270.2	261.0	254.9	306.2
1990	114.0	273.6	224.9	9.7	55.5	294.8	200.9	20.4	806.1	1,193.7	273.9 283.8	224.9	294.8
1991	117.9	283.7	217.8	7.2	52.8	286.2	191.8	24.1	780.0	1,181.6	283.8	217.8	286.2
1992 1993	112.0 99.6	344.4 350.6	231.4	7.0 7.9	44.5 43.7	291.2 292.5	171.7 152.6	21.9 21.2	767.8 741.9	1,224.2 1,192.1	344.5 350.6	231.4 224.0	291.2 292.5
1993	101.8	381.1	224.0 223.0	7.8	42.1	296.5	132.0	16.8	718.2	1,201.1	381.3	223.0	296.5
1995	105.4	391.2	217.0	8.1	37.6	305.9	87.2	18.6	674.3	1,170.9	391.6	217.0	305.9
1995 1996	113.7	387.0	217.0 200.5	9.6	39.0	305.9 311.6	87.2 96.8	18.6	674.3 676.1	1,176.7	391.6 387.4	217.0 200.5	305.9 311.6
1997	122.9	411.4	201.1	8.0	41.4	317.0	140.7 161.3	16.7	725.0 745.3 715.9	1,259.3 1,222.2	4116	201.1	317.0
1998	109.9	367.0	191.1 190.7	7.5 8.7	43.9	324.1 330.0	161.3	17.5	745.3	1,222.2	367.1	191.1	324.1 330.0
1999	113.6	361.2	190.7	8.7	45.8	330.0	121.0	19.7	715.9	1,190.7	361.4	190.7	330.0
2000	114.7	357.7	215.4	11.0	46.5	338.2 339.9	104.7	23.7	739.5 739.9	1,211.9	357.7	215.4	338.2
2001 2002	109.0 118.4	364.1 404.5	224.6 219.7	10.8 8.6	39.7 31.8	339.9 348.8	102.8 80.7	22.1 21.7	739.9 711.4	1,213.0 1,234.2	364.1	224.6 219.7	339.9 348.9
2002	109.4	415.0	231.6	9.9	36.3	348.0	86.5	18.5	730.8	1,255.1	404.6 415.3	231.6	348.1
2004	105.1	383.6	220.6	7.5	46.7	353.9	89.0	18.7	736.4	1.225.1	383.7	220.6	354.6
2005	119.3	386.3	220.6 219.2	10.9	51.2	353.9 347.2	90.4	18.5	736.4 737.3	1,243.0	386.4	219.2	354.6 353.3
2006	112.2	378.0	189 4	13.6	47.6	338.1 342.1 329.7	40.9	18.7	648.4	1,138.6	378.1	189.4	354.7
2007 2008	120.2 106.9	418.9 415.2	188.1 178.4	12.5	46.7 62.7	342.1	44.1	14.3 8.6	647.8	1,186.9 1,144.1	418.9 415.3	188.1 178.4	363.3 347.3
2008	106.9	415.2	178.4	11.0	62.7	329.7	31.5	8.6	621.9	1,144.1	415.3	178.4	347.3
2009 2010	92.1 83.8	408.5 447.4	169.6 186.9	9.8 9.2	35.2 48.5	318.7 313.0	16.4 8.1	21.4 22.1	571.1 587.7	1,071.7 1,119.0	408.5 447.4	170.3 187.3	338.2 337.5 334.2
2010	43.0	447.4 464.0	176.4	10.9	48.9	310.6	6.1 6.1	21.4	574.2	1,081.2	464.0	167.3 177.6	337.3 334.2
2012	24.0	430.9	146.9	9.2	48.6	308.5	4.0	19.6	536.8	991.8	430.9	148.0	331.5
2013	24.0 42.2	430.9 435.3	170.1	11.0	49.9	308.5 307.1	5.4	21.2	536.8 564.7	1,042.2	430.9 435.3	148.0 172.9	331.5 330.5
2014	29.9	432.5	165.9	12.3	52.6	301.8 311.3	8.5	23.0	564.0	1.026.4	432.6	167.9	324.9
2015	24.2	457.1	170.3	11.3	55.6	311.3	6.8	22.4	577.8	1 050 1	457.2	172.5	335.3
2016	20.1	440.7	141.3 145.2	10.6	64.6	314.8 309.3	4.7	22.8	558.9 R 562.5 R 576.8	R 1,019.8	440.8 462.5	144.3 147.7	339.0
2017	12.4	462.4	145.2	11.2	69.6	309.3	4.2	R 23.0 R 21.6 R 20.8	D 562.5	R 1,037.3	462.5	147.7	333.2
2018 2019	0.1 0.1	452.1 442.8	155.1 152.3	12.7 14.1	71.7 77.3	311.8	3.9 2.2	H 21.6	1 5/6.8 B 570.7	R 1,029.0	452.2 442.8	157.6 154.6	335.7
2019	0.1	442.8 400.7	139.2	14.1	77.3 31.8	305.9 244.4	2.2 0.4	R 20.8	R 572.7 R 449.6	R 1,015.6 R 850.3	442.8	154.6 141.6	329.8 263.6
2020	0.0	400.7	149 7	12.9	43.3	273.1	2.1	R 22.6	n 502 8	R 907.1	404.3	150.7	294.7
2021 2022	0.0	432.4	149.7 152.4	12.5	61.5	273.1 273.3	4.6	23.1	526.8	959.2	432.5	150.7 153.4	295.1

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Massachusetts (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.4	R 3.4	42.8	NA	NA	NA	NA	42.8	0.0	NA	NA	R 46.1	R -16.0	0.0	R 1,034.0
1965 1970	11.4 13.3	R 2.3 R 2.6 R 2.4 R 2.9	48.7 57.1	NA NA	NA NA	NA NA	NA NA	48.7 57.1	0.0 0.0	NA NA	NA NA	R 51.0 R 59.7 R 56.3	R -41.7 R -51.2 R -35.1 R -34.8 R -31.7 R -9.4 F 0.1 R -24.3 R -14.2 R 5.6 R 17.1	0.0 0.0	R 1,220.6 R 1,432.7
1971	15.6	R 2.4	53.9 50.4	NA	NA	NA	NA	53.9 50.4	0.0	NA	NA	R 56.3	R -35.1	0.0	R 1,459.4 R 1,511.9
1972	16.2	H 2.9 R 1 0	50.4 50.7	NA NA	NA NA	NA NA	NA NA	50.4	0.0	NA NA	NA NA	R 53.3 R 52.6	H -34.8 R -33.0	0.0 0.0	H 1,511.9
1973 1974	55.8 32.2	R 1.9 R 1.5	50.7 52.5	NA NA	NA	NA	NA	50.7 52.5	0.0 0.0	NA NA	NA	R 52.6 R 54.0	R 6.8	0.0	R 1,546.8 R 1,437.5
1975	41.6	R 1.4 R 1.7	49.0	NA	NA	NA	NA	49.0	0.0	NA	NA	R 50.4 R 57.1	R <sub>-11.7</sub>	0.0	R 1,383.9 R 1,465.0 R 1,460.8 R 1,439.7 R 1,276.6
1976 1977	40.5 39.6	R 1 ⊿	55.4 58.9	NA NA	NA NA	NA NA	NA NA	55.4 58.9	0.0 0.0	NA NA	NA NA	R 60 4	R 0.1	0.0 0.0	R 1,465.0
1978	60.9	R 0.7 R 1.5	65.5	NA	NA	NA	NA	65.5	0.0	NA	NA	н 66.2	R -24.3	0.0	R 1,439.7
1979	66.1 35.3	n 1.5 R n 5	69.8	NA NA	NA NA	NA NA	NA NA	69.8	0.0 0.0	NA NA	NA NA	R 71.3 R 71.4	n-14.2 R 5 6	0.0	<sup>n</sup> 1,276.6 R 1 215.0
1980 1981	35.3 47.8	R 0.5 R 1.5	70.9 68.7	(s)	NA	NA	0.0	70.9 68.7	0.0	NA	NA NA	R 71.4 R 70.2	R 26.2	0.0 0.0	R 1,215.0 R 1,185.4 R 1,197.8 R 1,191.2
1982 1983	46.2 66.1	R 0.9 R 0.9	64.0 75.7	(s) (s) (s)	NA NA	NA NA	0.0 0.0	64.0 75.7	0.0 0.0	NA NA	NA 0.0	R 64.9 R 76.6	H 17.1 R 16.4	0.0 0.0	H 1,197.8
1984	11.2	R 1 0	61.9	0.0	NA	NA	0.0	61.9	0.0	0.0 0.0	0.0 0.0 0.0	R 62.9 R 63.6	H 51.9	0.0	R 1,254.1 R 1,279.6
1985	65.1	R 0.9 R 1.3 R 1.1	62.7	0.0	NA NA	NA	0.0	62.7	0.0	0.0	0.0	R 63.6	R 11.6	14.7	R 1,279.6
1986 1987	25.6 11.9	R 1.1	65.5 57.0	0.0 0.0	NA NA	NA NA	0.0 0.0	65.5 57.0	0.0 0.0	0.0 0.0	0.0 0.0	R 66.9 R 58.1	R 70.7	12.4 16.5	R 1,346.9 R 1,373.0
1988	11.8	R 0.7	59.6 62.4	0.0	NA	NA	0.0	59.6 62.4	0.0	0.0	0.0	H 60 4	R 106.6	9.8 7.0	R 1,398.9
1989 1990	31.9 53.6	R 0.7 R 1.4 R 4.3 R 3.8	62.4 52.1	0.0 0.0	NA NA	NA NA	0.0 0.0	62.4 52.1	(S)	0.2 0.2	0.0 0.0	R 64.0 R 56.5	R 95 1	7.0 6.6	R 1,398.9 R 1,424.9 R 1,405.5 R 1,365.5
1991	46.3	R 3.8	52.1 54.7	0.0	NA	NA	0.0	52.1 54.7	(s) (s) (s) 0.1	0.2 0.2	0.0	R 56.5 R 58.7	R 50.5 R 70.7 R 106.6 R 51.9 R 95.1 R 71.0	7.8	R 1,365.5
1992 1993	49.7 45.6	R 3.4 R 3.0 R 3.2	57.7 60.4	0.0	NA NA	NA NA	0.0 0.0	57.7 60.4	0.1 0.1	0.2	0.0	R 61.4	R 92.7 R 127.4 R 127.2	5.7 6.3	R 1,433.6 R 1,435.0 R 1,440.8
1994	40.3	R 3.2	63.5	(s) 0.0	NA	NA	0.0	63.5	0.1	0.2 0.2	0.0 0.0	R 63.7 R 67.0	R 127.2	6.3 5.2	R 1,440.8
1995 1996	47.1 55.9	R 3.0	63.3 65.8	0.0 0.0	NA NA	NA NA	0.0 0.0	63.3 65.8	0.1 0.1	0.2 0.2 0.2	0.0 0.0	R 66.5 R 70.2	R 135.0 R 135.1 R 67.5	6.1 5.4	R 1,425.7 R 1,443.4 R 1,443.7
1997	45.2	R 4.1 R 3.5	61.4	0.0	NA	NA	0.0	61.4	0.2	0.2	0.0	H 65.3	R 67.5	6.4	R 1,443.7
1998	59.8	Ras	55.5	0.0	NA	NA	0.0	55.5	0.2	0.2	0.0	R 59.4	R 70.9	6.0	H 1 418 4
1999 2000	47.2 57.5	R 3.3 R 3.6 R 2.4 R 3.0	54.8 58.2	0.0 0.0	NA NA	NA NA	0.0 0.0	54.8 58.2	0.2 0.2	0.2 0.2	0.0 0.0	R 58.5 R 62.2 R 43.1	R 70.9 R 133.2 R 186.0 R 193.6 R 181.6	6.6 6.1	R 1,436.2 R 1,523.7
2001 2002	53.7 60.2	R 2.4	40.3 37.4	0.0	(s)	NA	0.0	40.3 37.5	0.2 0.3	0.2 _ 0.2	0.0	R 43.1	R 193.6	3.9 1.7	R 1,507.3 R 1,518.6
2002	60.2 51.0	n 3.0 R 3.7	37.4	0.1 0.1	(s) (s)	NA NA	0.0 0.0	37.5	0.3	0.2 R 0.1	0.0	R 40.9	n 181.6 R 135.1	1.7 0.7	<sup>n</sup> 1,518.6 R 1 486 1
2003 2004	51.9 61.9	R 3.7 R 3.4	38.9 40.5	0.7	(s)	NA	0.0	39.0 41.2	0.4 0.4	R 0.1 0.2	0.0 0.0	R 43.2 R 45.2	R 135.1 R 151.6	1.6	R 1,486.1 R 1,485.4
2005 2006	57.1 60.8	R 3.6 R 5.2	29.7	6.1 16.5	0.1	NA NA	0.0 0.0	35.9	0.5	0.2	0.0 0.0	R 40.1	H 143.5	7.7	H 1,491.3
2007	53.7	R 2.7 R 3.9	29.8 29.5	21.2	0.2 0.2 0.2	NA NA	0.0	35.9 46.5 50.9 48.2	0.5 0.5	0.2 R 0.2 0.3 R 0.3 R 0.4	0.0	R 52.3 R 54.4	R 149.2	2.0 2.5	R 1,446.7 R 1,421.1 R 1,360.0
2008	61.3	R 3.9	30.4	17.6	0.2	NA NA	0.0	48.2	0.6	0.3	(s) R (s) R 0.1	R 53.0	R 149.5	13.1	R 1,421.1
2009 2010	56.4 61.9	R 4.1 R 3.4	36.4 39.3	19.5 24.5	0.2 0.2	NA NA	(s) (s) (s)	56.2 63.9	0.7 0.8	R 0.4	R 0.1	R 61.3 R 68.6	R 155.0	15.6 11.6	n 1 416 /
2011	53.2	Raq	39.3	23.7	0.5	0.0	(s)	63.5	1.0	R 0.5 R 1.0 R 1.9 R 3.5 R 4.8	R 0.2 R 0.3 R 0.7	R 69 1	R 169.3	15.1	H 1.387.9
2012 2013	61.4 45.3	R 3.1 R 3.4	37.0 40.0	23.0 23.3	0.4 2.2	0.0 0.0	(s) (s)	60.4 65.5	0.9 0.9	7 1.0 R 1 9	n 0.3 R 0.7	R 65.7 R 72.4	R 226.3	3.4 4.2	R 1,348.5 R 1,413.4
2014	60.3	R 3 1	41.5	23.2	1.9 2.2	0.0	(s)	66.5	0.9	R 3.5	Hng	R 74.7	R 253.5	4.8	R 1,419.8 R 1,435.9
2015 2016	52.2 56.6	R 2.8 R 2.4 R 3.5	39.6	24.0 24.1	2.2	0.0 0.0	(s)	65.9 66.1	0.9 0.9	H 4.8	R 0.7 R 0.7 R 0.8	R 75.1 R 76.8	R 143.5 R 163.5 R 169.2 R 149.2 R 149.5 R 155.7 R 169.3 R 226.3 R 249.3 R 253.5 R 244.9 R 231.5 R 222.4 R 260.4 R 299.9 R 295.8 R 298.2	4.5 3.4	H 1,435.9
2017	56.6 52.8	R 3.5	38.6 34.3	23.9	3.4 3.7	0.0	(s) (s)	66.1 61.8	0.9	R 6.7 R 8.2 R 10.8 R 11.5	R 0.8	H 75 1	R 222.4	0.5	R 1,388.1 R 1,388.1
2018	46.4	н з.9	33.8 33.2	23.9	2.0	0.0	(s)	59.7	0.9	R 10.8	HΛQ	R 76.0	R 260.4	3.3	R 1,415.1 R 1,413.3 R 1,213.4 R 1,277.1
2019 2020	22.7 0.0	R 3.3 R 2.9	R 28.8	23.9 19.2	1.6 1.6	0.0 0.0	(s) (s)	58.6 R 49.7	0.9 0.9	H 13.0	R 0.7 R 0.8	R 75.0 R 67.3	R 295.8	(s) 0.0	R 1,413.3
2021	0.0	R 3.8	R 28.8 R 29.0	21.7	1.4	0.0	(s)	H 52.0	0.9	R 13.0 R 14.4	R 0.7	R 67.3 R 71.8	R 298.2	0.0	R 1,277.1
2022	0.0	3.0	29.0	21.8	1.1	0.0	(s)	51.9	0.9	18.6	0.7	75.1	280.9	0.0	1,315.2

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Massachusetts

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			Т	housand barrels	<b>S</b>			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	2,113	67	50,963	1,148	1,209	34,993	29,118	11,024	128,455	117					12,381			
1970	335	142		1,820	7,864	49,527	43,829	7,015	168,117	72					24,639			
1980 1990	198 136	178 203	37,006 37,991	2,125 2,631	8,563 9,806	51,443 56,125	8,417 8,442	4,052 3,354	111,607 118,349	63 11					33,271 45,442			
2000	71	255	36,643	2,923	8,204	65,029	3,025	3,850	119,675	12					51,773			
2005	111	226	37,287	2,875	9,025	68,048	4,075	3,018	124,329	(s)					57,228			
2006	93	202	32,487	3,681	8,387	68,400	2,660	3,012	118,626	9					55,850			
2007	109	225	32,380	3,362	8,235	70,647	2,084	2,345	119,053	19					57,139			
2008 2009	84 50	252 246	30,681 29,219	2,878 2,574	11,060 6,205	68,020 66,453	1,643 1,397	1,457 3,372	115,739 109,220	14 15					55,884 54,359			
2010	66	246	32,298	2,387	8,553	66,604	955	3,464	114,262	10					57,123			
2011	62	263	30,630	2,835	8,617	66,015	779	3,336	112,211	12					55,570			
2012	61	237	25,564	2,388	8,567	65,485	499	3,054	105,557	9					55,313			
2013	59	267	29,748	2,858	8,794	65,312	445	3,352	110,509	9					55,265			
2014 2015	57 45	287 288	28,678 29,590	3,195 2,952	9,270 9,808	64,226	246 162	3,637 3,558	109,253 112,379	11 10					54,469 54,621			
2015	45	288	29,590 25,004	2,952	9,808	66,309 67,054	246	R 3,610	R 110,065	10					53,476			
2017	4	286	25,486	2,913	12,271	65,943	373	R 3,629	R 110,616	10					52,513			
2018	4	305	27,073	3,317	12,643	66,415	144	R 3,418	R 113,010	4					53,285			
2019	3	317	26,784	3,670	13,633	65,279	242	R 3,299	R_112,908	6					51,337			
2020	0	284	24,541	3,398	5,600	52,176	49	R 3,287	R 89,051	5					50,009			
2021 2022	0	281 304	R 26,080 25,936	3,351 3,253	7,643 10,848	58,366 58,443	255 261	<sup>R</sup> 3,574 3,655	<sup>R</sup> 99,269 102,396	6 5					50,798 50,983			
									Trillion	Btu								
1960	54.3	69.4	296.9	4.4	6.7	183.8	183.1	64.8	739.6	R <sub>0.4</sub>	42.8	NA	NA	NA	42.2	R 948.8	R 85.2	R 1,034.0
1970	8.0	143.3	338.2	6.9	44.5	260.2	275.5	42.4	967.7	R 0.2	57.1	NA NA		NA	84.1	R 1,260.5	R 172.2	R 1,432.7
1980	4.8	180.4	215.6	7.8	48.4	270.2	52.9	24.1	619.0	R <sub>0.2</sub>	70.9		NA	NA	113.5	R 973 5	R 241.5	R 1.215.0
1990	3.4	210.1	221.3	9.7	55.5	294.8	53.1	20.4	654.8	R (s)	27.7			0.2	155.0	R 1,051.0	R 354.5	R 1,405.5
2000	1.9	266.6	213.2	11.0	46.5	338.2	19.0	23.7	651.7	R (s)	24.1			0.2	176.6	R 1,121.3	R 402.4 R 378.5	R 1,523.7
2005 2006	2.9 2.4	228.9 203.7	216.9 188.5	10.9 13.6	51.2 47.6	353.3 354.7	25.6 16.7	18.5 18.7	676.4 639.8	(s) R (s)	8.6 8.8			0.2 0.2	195.3 190.6	1,112.9 R 1,046.2	R 370.8	R 1,491.3 R 1,416.9
2007	2.8	229.0	187.3	12.5	46.7	363.3	13.1	14.3	637.2	R 0.1	9.4			R 0.2	195.0	R 1,074.4	R 372.3	R 1,446.7
2008	2.2	255.0	177.3	11.0	62.7	347.3	10.3	8.6	617.3	R (s)	8.7			0.3	190.7	R 1,074.9	R 346.1	R 1,421.1
2009	1.3	253.2	168.8	9.8	35.2	338.2	8.8	21.4	582.3	0.1	15.5		0.7	R <sub>0.3</sub>	185.5	R 1,038.8	R 321.7	R 1,360.5
2010	1.8	254.7	186.5	9.2	48.5	337.5	6.0	22.1	609.8	R (s)	18.3		0.8	R 0.4	194.9	R 1,080.7	R 336.3	R 1,416.9
2011	1.6	270.9	176.7	10.9	48.9	334.2	4.9	21.4	597.0	R (s) R (s)	19.7		1.0	R 0.5 R 0.9	189.6	R 1,080.3	R 308.2 R 335.2	R 1,388.6 R 1,349.3
2012 2013	1.7 1.6	244.8 275.5	147.4 171.4	9.2 11.0	48.6 49.9	331.5 330.5	3.1 2.8	19.6 21.2	559.4 586.7	R (s)	17.7 20.7		0.9 0.9	R 1.5	188.7 188.6	R 1,014.2 R 1,075.5	R 338.5	1,349.3 R 1,414.0
2014	1.5	293.7	165.3	12.3	52.6	324.9	1.5	23.0	579.5	R (s)	20.6		0.9	R 2.4	185.8	R 1,084.6	R 335.2	R 1,419.8
2015	1.2	296.0	170.5	11.3	55.6	335.3	1.0	22.4	596.2	R (s)	19.5		0.9	R 3.2	186.4	R 1,103.5	R 332.4	R 1.435.8
2016	0.1	279.7	143.9	10.6	64.6	339.0	1.5	22.8	582.5	(s)	18.4	(s)	0.9	R 4.6	182.5	R 1,068.7	R 319.1	R 1,387.8
2017	0.1	294.6		11.2	69.6	333.2	2.3	R 23.0	R 586.0	R (s)	14.3		0.9	R 5.5	179.2	R 1,080.6	R 306.4	R 1,387.0
2018	0.1	314.2		12.7	71.7	335.7	0.9	<sup>R</sup> 21.6 <sup>R</sup> 20.8	R 598.5	(s)	13.9	(-)	0.9	<sup>R</sup> 7.4 <sup>R</sup> 7.6	181.8	R 1,116.8	R 298.7	R 1,415.6
2019 2020	0.1 0.0	326.7 292.8	154.3 141.3	14.1 13.1	77.3 31.8	329.8 263.6	1.5 0.3	R 20.8	R 597.8 R 470.8	(s) (s)	15.8 R 11.5		0.9	R 8.3	175.2 170.6	R 1,124.0 R 954.9	R 290.0 R 259.2	R 1,414.0 R 1,214.1
2020	0.0	289.5	150.3	12.9	43.3	294.7	1.6	R 22.6	R 525.4	R (s)	R 12.2	(s)	0.9	R 9.0	173.3	R 1,010.4	R 267.1	R 1,277.5
2022	0.0	313.6	149.5	12.5	61.5	295.1	1.6	23.1	543.3	(s)	20.7		0.9	12.0	174.0		251.2	1,315.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Massachusetts

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	487	45	34 305	631	4 858	39 794				4 190			
1965	210	45 65 83	37.082	777	4,858 2,682 1,434	40.541				4,190 5,766			
1970	104	83	38,530	784	1,434	40,748				9.335			
1960 1965 1970 1975	30	90	34,305 37,082 38,530 37,860 22,712 20,064 20,540 20,644 20,445 18,425 15,645 15,882 15,793 14,276 14,593 14,210 11,922 12,856 14,584 14,465	845	591	39,794 40,541 40,748 39,295 23,609 21,843 21,412 22,217 20,422 17,619 17,837 17,775 16,170 16,378				10,648 11,571 12,907 15,581 15,993 17,562 20,539 19,624 20,138 19,638 19,475 21,409 20,473 20,313 20,732 20,175 19,693 19,338 20,285 19,315			
1980 1985 1990 1995 2000	21	94 98 107	22,712	567	323 577	23,602				11,571			
1985	30	98	20,064	858	5//	21,499				12,907			
1005	13 4	107	20,540	1,141 1,218	163 130	21,843				15,581			
2000	4	100	20,004	1,582	130	21,412				17,562			
2005	2	114 119 104	18 425	1,502	191 299 238	20,422				20 539			
2006	1	104	15 645	1,698 1,735	238	17 619				19 624			
2007	2	115	15.882	1,794	161	17.837				20,138			
2008	0	115 133	15,793	1,794 1,920	63	17,775				19,638			
2009 2010	0	133 126	14,276	1,795 1,685	99 100	16,170				19,475			
2010	0	126	14,593	1,685	100	16,378				21,409			
2011	0	129	14,210	1,989	62	16,261				20,473			
2012 2013	0	115 117	11,922	1,556 1,864	29 30	13,507				20,313			
2013	0	117	12,856	2,117	30	14,750				20,728			
2014	0	127 127	14,584	2,117	52 44	16,753				20,071		==	
2016	0	127 127 112	11 231	1,979 1,966	52 44 52 36 35 43	16,261 13,507 14,750 16,753 16,488 13,249				19 693			
2017	0	121	12 279	2 118	36	14 434				19,338			
2017 2018	Õ	121 130 135	12,279 13,315 13,161	2,118 2,250 2,694	35	14,434 15,601 15,898				20.285			
2019	Ö	135	13,161	2,694	43	15,898				19,315			
2020	0	120 123	11,817 R 12,432	2,249 2,105	49 37	14,115 R 14,575				20,345 20,305			
2021	0	123	H 12,432	2,105	37	H 14,575				20,305			
2022	0	132	12,268	2,065	33	14,365				20,007			
							Trillion Btu						
1960	12.1	46.6	199.8	2.4	27.5	229.8 234.2 235.6 227.1	8.5	NA	NA	14.3 19.7 31.8 36.3	311.4	R 28.8 R 38.7 R 65.2 R 74.2 R 84.0 R 89.5 R 123.9 R 136.5 R 135.8 R 130.3 R 131.2 R 121.6 R 115.2 R 123.1	R 340.2
1965	5.2	65.7 83.6	216.0	3.0	15.2	234.2	7.6	NA	NA	19.7	332.3	R 38.7	R 371.0
1970	5.2 2.5 0.7	83.6	224.4	3.0 3.2	8.1 3.3	235.6	9.2 9.8	NA	NA	31.8	332.3 362.7 364.6	H 65.2	H 427.9
1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007	0.7	90.6	220.5	3.2	3.3	227.1	9.8	NA	NA	36.3	364.6	n 74.2	n 438.7
1980	0.5 0.7	96.0 100.1	132.3 116.9	2.2 3.3	1.8 3.3	136.3 123.4	42.0 29.4	NA NA	NA NA	39.5 44.0 53.2 54.6 59.9 70.1 67.0 68.7 67.0 66.4 73.0	306.1 296.0	" 84.0 B oo 5	11 390.1 B 205 5
1000	0.7	110.1	110.9	3.3	0.0	123.4	29.4	0.0	NA 0.2	44.U E2.0	307.1	H 101.5	R 420 7
1990	0.3	10.6	119.6 116.8	4.4 4.7	0.9 0.7	124.9 122.2	10.1	0.0	0.2	53.2 54.6	305.0	R 123.9	R 428.7
2000	(s)	110.6 108.5 119.1	119.0	6.1	1.1	126.1	18.1 19.5 14.3 3.6	(s)	0.2 0.2 0.2 0.2	59.9	3197	R 136.5	R 456.2
2005	0.1	120.4	119.0 107.2	6.5	1.7	126.1 115.4	3.6	(s)	0.2	70.1	309.7 274.1 289.2	R 135.8	R 445.5
2006	(s)	104.9 117.0	90.8 91.9	6.7 6.9	1.4 0.9	98.8 99.7	3.2 3.5	(s)	0.2 0.2 R 0.2	67.0	274.1	R 130.3	R 404.3
2007	0.1	117.0	91.9	6.9	0.9	99.7	3.5	(s)	_ 0.2	68.7	289.2	R 131.2	R 420.4
2008 2009 2010	0.0	134.5 137.0 129.8	91.3	7.4	0.4	99.0	3.9	(s)	H 0.2	67.0	304.8	H 121.6	H 426.4
2009	0.0 0.0	137.0	82.5 84.3	6.9 6.5	0.6 0.6	89.9 91.3	10.2	(s)	0.3 _ 0.3	66.4	н 303.8	H 115.2	H 419.1
2010	0.0	129.8	84.3	6.5	0.6	91.3	10.9	0.1	0.3	/3.0	305.5	n 126.0	<sup>n</sup> 431.5
2011 2012 2013	0.0 0.0	132.9 119.2 120.7	82.0 68.8 74.1	7.6 6.0 7.2	0.3 0.2	90.0 74.9 81.4	10.6 8.9	(s) 0.1	R 0.3 R 0.4 R 0.5	69.9 69.3 70.7	H 303.7	1113.6 R 100.1	" 417.3 R 205 0
2012	0.0	119.2	7/1	7.0	0.2	74.9 91.4	11.6	0.1	R 0.4	70.7	R 284 0	R 123.1	R 411 0
2013	0.0	129.7	84 1	8.1	0.2	92.5	11.0	0.1	H 0 7	68.5	R 303 4	R 127.0 R 123.5 R 122.8 R 117.5 R 112.8 R 113.7	R 426 9
2014 2015	0.0	129.9 130.4	84.1 83.3	7.6	0.3 0.3	92.5 91.2	11.7 10.5	0.1	R 1 0	68.8	R 302.0	R 122.8	R 424 7
2016	0.0	115.5	64 7	7.6	0.3	72.5 79.0	8.4	0.1	R <sub>17</sub>	67.2	R 265.3	R 117.5	R 382.8
2016 2017 2018	0.0	115.5 124.8	70.7 76.7	8.1	0.3 0.2 0.2	79.0	8.4 8.3	0.1	R 2.2 R 2.8	66.0	R 280.3	R 112.8	R 393.2
2018	0.0	134.3	76.7	8.6	0.2	85.5	8.3	0.1	H 2.8	68.5 68.8 67.2 66.0 69.2	H 300.1	H 113.7	H 413.8
2019	0.0	139.3	75.8	10.3	0.2	86.4	10.2	0.1	R 2.9	65.9	H 304.7	H 109.1	H 413.8
2019 2020 2021	0.0 0.0	123.9	68.0	8.6 8.1	0.3	76.9	7 6.0	0.1 0.1	n 3.2	69.4 69.3	n 279.5	R 109.1 R 105.5 R 106.8	n 385.0
2021	0.0	139.3 123.9 126.5 135.5	71.7 70.7	8.1 7.9	0.2 0.3 0.2 0.2	76.9 80.0 78.8	10.2 R 6.0 R 6.6 7.8	0.1	R 3.2 R 3.3 4.9	69.3 68.3	304.8 R 303.8 305.5 R 303.7 R 272.7 R 284.9 R 302.0 R 265.3 R 280.3 R 300.1 R 300.1 R 304.7 R 279.5 R 285.7 295.3	98.6	R 340.2 R 371.0 R 427.9 R 438.7 R 390.1 R 385.5 R 428.7 R 428.9 R 456.2 R 445.5 R 404.3 R 420.4 R 426.4 R 419.1 R 431.5 R 411.5 R 411.3 R 395.8 R 411.9 R 424.7 R 382.8 R 413.8 R 385.0 R 393.2 R 413.8 R 385.0 R 393.5
2022	0.0	133.3	70.7	7.9	0.2	/0.0	7.0	0.1	4.9	00.3	290.3	90.0	393.6

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Massachusetts

Coal Salural Distillate fuel oil HGL b  Thousand short tons cubic feet	Thousand barrels	Total <sup>d</sup> Hydro- electric power <sup>e,f</sup> Million kilowatthours	Wood and	Solar <sup>f,h</sup> Electricity <sup>i</sup>		Electrical	
Year short tons cubic feet			and	Million	_		
	404 135 10.036		waste f,g Geothermal f	kilowatthours	End use f,j	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960 338 10 11,965 253		22.792 NA		NA 3,011			
1965 159 16 12,933 311	223 92 14,503	28,062 NA		NA 4,302			
1970 82 35 13,438 314 1975 71 38 13,204 338	119 102 14,872 49 109 9,122	28,845 NA 22,823 NA		NA 7,782 NA 11,397			
1980 79 53 7,510 227	30 191 4.854	12,812 NA		NA 13,047			
1985 107 41 6,369 344 1990 50 51 7,409 457	108 188 3,157 127 69 4,473 110 65 3,069	10,165 NA 12,535 0		NA 15,566 (s) 19,520			
_ 1995 23 82 6,478 488	110 65 3,069	10,211 0		(s) 20,255			
2000 14 64 5,205 634 2005 40 57 4,712 766	107 279 1,388 78 58 2,663	7,613 0 8,277 (s)		1 23,439 2 26,415			
. 2006 15 52 3.265 726	39 73 1.170	5,272 `5		3 26,237			
2007 21 62 3,253 647 2008 0 72 2,434 750	25 80 835 20 79 953	4,840 6 4,236 6		4 27,148 6 26,582			
<b>2009</b> 0 72 3.167 647	17 81 704	4,616 6		12 17,775			
2010 0 72 5,438 582 2011 0 81 3,593 645	47 48 552 6 146 340	6,666 5 4,730 6		30 18,243 55 17,767			
<b>1</b> 2012 0 73 2.266 590	1 43 220	3,120 5		153 17,723			
2013 0 100 2,336 729 2014 0 106 2,639 802	2 47 <u>222</u> 13 46 134	3,337 6 3,634 5		284 17,713 469 26,076			
2015 0 105 2,692 736	13 1,388 51	4,879 6		613 26,200			
2016 0 105 1,472 561 2017 0 109 1,687 563	14 1,400 31 10 1,416 24	3,477 3 3,700 4		782 25,934 905 25,968			
2018 0 119 1,597 892	9 1,407 13	3,918 4		1,280 25,952			
<sup>2</sup> 2019 0 122 1,708 792 2020 0 110 1,274 946	14 1,416 20 17 1,429 33	3,950 6 3,699 5		1,273 25,337 1,390 23,121			
2021 0 103 R 2,355 1,041 2022 0 117 2,294 995	17 1,429 33 10 1,445 19 9 1,598 20	R 4,871 6 4,916 5		1,572 23,832 1,955 24,444			
2022 0 1117 2,294 990	9 1,390 20	Trillion Btu		1,900 24,444			
1960 8.4 10.6 69.7 1.0	2.3 0.7 63.1	136.8 NA	0.2 NA	NA 10.3	166.2	R 20.7	R 186 9
1965 3.9 16.5 75.3 1.2	1.3 0.5 91.2	169.5 NA	0.1 NA	NA 14.7	166.2 204.7	R 20.7 R 28.9 R 54.4	R 186.9 R 233.6
1970 1.9 35.8 78.3 1.2 1975 1.6 38.0 76.9 1.3	0.7 0.5 93.5 0.3 0.6 57.4	174.2 NA 136.4 NA	0.2 NA 0.2 NA	NA 26.6 NA 38.9	238.6 215.0	R 54.4 R 79.4	R 293.0 R 294.4
1980 1.8 54.3 43.7 0.9	0.2 1.0 30.5	76.3 NA	1.0 NA	NA 44.5	173.5	R 94.7	R 294.4 R 268.2
1985 2.5 42.4 37.1 1.3 1990 1.3 52.4 43.2 1.8	0.6 1.0 19.8 0.7 0.4 28.1	59.9 NA 74.1 0.0	0.7 NA 2.0 (s)	NA 53.1 (s) 66.6	157.9 196.3	R 107.9 R 152.3	R 265.8 R 348.6
1995 0.6 84.4 37.7 1.9	0.6 0.3 19.3	59.8 0.0	2.7 0.1	(s) 69.1	216.6	n 157.0	n 373.6
2000 0.4 66.6 30.3 2.4 2005 1.0 57.5 27.4 2.9	0.6 1.5 8.7 0.4 0.3 16.7	43.5 0.0 47.8 _ (s)	3.1 0.2 1.5 0.5	(s) 80.0 (s) 90.1	193.8 198.4	R 182.2 R 174.7	R 376.0 R 373.1
2006 0.4 52.8 18.9 2.8	0.2 0.4 7.4	29.7 R (s)	1.5 0.5	(s) 89.5	R 174.4	R 174 2	R 348.6
2007 0.5 62.5 18.8 2.5 2008 0.0 73.2 14.1 2.9	0.1 0.4 5.3 0.1 0.4 6.0	29.7 R (s) 27.1 R (s) 23.5 R (s)	1.6 0.5 0.6 0.5	(s) 92.6 R (s) 90.7	184.9 R 188.6	R 176.9 R 164.6	R 361.8 R 353.2
2009 0.0 73.7 18.3 2.5	0.1 0.4 4.4	25.7 H (s)	1.4 0.6	R (s) 60.6	H 162.2	n 105.2	R 267.4
2010 0.0 74.5 31.4 2.2 2011 0.0 83.4 20.7 2.5	0.3 0.2 3.5 (s) 0.7 2.1	37.6 R (s) 26.1 R (s)	1.4 0.7 1.4 0.9	R 0.1 62.2 R 0.2 60.6	R 176.6 R 172.7	R 107.4 R 98.5	R 284.0 R 271.2
2012 0.0 75.5 13.1 2.3	(s) 02 14	16.9 R (s)	1.2 0.8	R 0.5 60.5	H 155.5	H 107 /	R 262 q
2013 0.0 103.0 13.5 2.8 2014 0.0 108.3 15.2 3.1	(s) 0.2 1.4 0.1 0.2 0.8	17.9 H (s) 19.4 (s)	1.4 0.8 1.5 0.8	R 1.0 60.4 R 1.6 89.0	R 184.6 R 220.7	R 108.5 R 160.5	R 293.1 R 381.2
2015 0.0 108.3 15.5 2.8	0.1 7.0 0.3	25.7 R (s)	1.5 0.8	H 2.1 89.4	R 227.9	n 159 4	H 387 3
2016 0.0 108.0 8.5 2.2 2017 0.0 112.7 9.7 2.2	0.1 7.1 0.2 0.1 7.2 0.2	18.0 (s) 19.2 (s)	2.5 0.8 2.5 0.8	R 2.7 88.5 R 3.1 88.6	R 220.5 R 227.1	R 154.8 R 151.5	R 375.2 R 378.6
2018 0.0 122.4 9.2 3.4	0.1 7.1 0.1	19.9 (s)	2.3 0.8	R 4 4 99 5	H 238.3	n 145.5	R 383 8
2019 0.0 125.3 9.8 3.0 2020 0.0 112.9 7.3 3.6	0.1 7.2 0.1 0.1 7.2 0.2	20.2 (s) 18.5 (s)	2.5 0.8 2.3 0.8	R 4.3 86.4 R 4.7 78.9	R 239.7 R 218.2	R 143.1 R 119.8	R 382.9 R 338.1
2021 0.0 106.4 13.6 4.0	0.1 7.3 0.1	25.1 R (s)	2.5 0.8	R 5.4 81.3	R 221.4	H 125.3	H 346.8
2022 0.0 120.2 13.2 3.8	0.1 8.1 0.1	25.3 (s)	9.6 0.8	6.7 83.4	246.1	120.4	366.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Massachusetts

					Petro	leum			Unidan	Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	energy losses	Total <sup>f,k</sup>
1960	1,266 496	12 20	2,322 2,841	260	133 206	17,875 25,076	4,351 4,889 4,745	24,942	117				NA	5,075			
1965 1970	496 149	20	2,841 2,897	401 693	206 111	25,076 25,742	4,889	33,412 34,188	100 72				NA NA				
1975	110	24	2,654	1.099	81	15.891	3,203	22,928	67	==			NA NA				
1980	98	29	1,886	1,305	91	2,663	2,962	8,906	63				NA	8,486			
1985 1990	176 73	33 44	1,165 2.585	448 973	367 414	8,399 2,604	2,595 2,493	12,974 9.070	63 11		==	==	NA (s)	9,454 10,157	==		
1995	42	64	1.278	387	373	1,458	2,495	5,760	11	==	==	==	(s)	10,137	==	==	
2000	55	75	944	651	306	1,099	2,953	5,954	12				(s)	10,533			
2005	68 77	48	1,895	371	909	767	2,116	6,058	(s) 3			==	1	9,871			
2006 2007	77 85	43 46	1,591 1,360	1,186	929 791	1,115	2,288 1,661	7,109 5,672	14				(s)	9,602 9,450			
2008	84	45	1,573	892 153	727	968 387	943	3,784	8				(s)	9,332			
2009	50	39	877	107	692	295	2,816	4,788	9				(s)	16,754			
2010 2011	66 62	44 48	1,241 1,265	111 190	904 950	119 229	2,869 2,835	5,243 5,468	5 6				1	17,116 16,974			
2011	62 61	48	1,265	231	921	229 114	2,635 2,627	5,468 4.568	4								
2013	59	47	622	253	956	114 26	2,882	4,568 4,739	4				10 20	16,463			
2014	57	46	742	260	762	18	3,135	4,916	6				33	7,961			
2015 2016	45	45 46	961 815	212 192	752 759	26 15	3,026 R 3,093	4,977 R 4,873	5				41 64	7,892 7,507			
2017	4	47	933	175	771	19	H 2 176	R 5 073	6				70				
2018	4	48	822	160	787	21	R 2.967	R 4.758	ő				84	6,699			
2019	3	49	780	172		11	n 2.855	R 4,614 R 4,583	0				95	6,342			
2020 2021	0	46 48	700 854	178 185	800 795	4 18	R 2,901 R 3,031	R 4,882	0				96 100				
2022	ő	48	863	175	823	18	3,123	5,003	ő				142	6,234			
									Trillion Bt	u							
1960	33.2	12.0	13.5	1.0		112.4	27.4	155.0	R <sub>0.4</sub>	34.1	NA	NA	NA	17.3	R 251.9	R 34.9	R 286.8
1965	12.8	20.0	16.5	1.5		157.6	30.4	207.2	R 0.3 R 0.2	41.0	NA	NA NA	NA NA		R 303.7 R 311.2	R 43.9 R 51.8	R 347.6 R 363.0
1970 1975	3.6 2.6	22.8 24.1	16.9 15.5	2.5 3.9		161.8 99.9	29.5 19.8	211.4 139.5	R 0.2	47.8 39.0	NA NA	NA NA	NA NA		R 230.4	R 51.1	R 281 5
1980	2.4	29.4	11.0	4.6	0.5	16.7	17.9	50.7	H02	27.8	NA	NA	NA	29.0	H 137 0	R 61.6 R 65.5	R 281.5 R 198.6
1985	4.4	33.9	6.8	1.5		52.8	15.5	78.6	R 0.2 R (s)	32.6	0.0	NA	ŅĄ		R 181.4 R 142.3	H 65.5	R 246.9
1990 1995	1.8 1.1	45.9 65.2	15.1 7.4	3.4 1.3	2.2 1.9	16.4 9.2	15.4 14.0	52.4 33.9			0.0 0.0	0.0 0.0	(s) (s)	34.7 34.2	142.3 _ 144.0	R 79.2 R 77.7	R 221.5 R 221.7
2000	1.5	78.2	5.5	2.2		6.9	18.5	34.7	R (S)	6.7	0.0	0.0	(s)	35.9	R 157.1	R 81.9	R 238.9
2005	1.9	48.5	11.0	1.3	4.7	4.8	13.3	35.2	(s)	3.5	0.0	0.0	(s)	33.7	122.7	R 65.3	R 188 0
2006 2007	2.0 2.2	43.7 47.1	9.2 7.9	4.1 3.0	4.8 4.1	7.0 6.1	14.5 10.3	39.6 31.4	(s) R (s)	4.1 4.3	0.0 0.0	0.0 0.0	(s)	32.8 32.2	122.3 R 117.3	R 63.7 R 61.6	R 186.0 R 178.9
2007	2.2	47.1	7.9 9.1	0.5	3.7	2.4	5.6	21.3	B /-/	4.0	0.0	0.0	(s)	31.8	104.9	R 57 0	R 162 7
2009	1.3	40.6	5.1	0.4	3.5	1.9	18.2	29.0	R (s)	3.8	(s) (s)	0.0	(s)	57.2	132.0	R 99.1	R 231.1
2010	1.8	45.7	7.2	0.4	4.6	0.7	18.6	31.5				0.0	(s)	58.4	143.4	H 100.8	H 244.1
2011 2012	1.6 1.7	49.0 45.4	7.3 3.9	0.7 0.9	4.8 4.7	1.4 0.7	18.4 17.1	32.7 27.2	R (s) (s)	7.7 7.7	(s) (s)	0.0 0.0	(S)	57.9 57.8	149.0 R 139.8	R 94.1 R 102.6	R 243.1 R 242.3
2012	1.6	48.2	3.6	1.0		0.7	18.4	27.2	>-<	77	(s)	0.0	R (s) R 0.1	56.2	H 1/1 7	H 100 8	H 242 5
2014	1.5	46.7	4.3	1.0	3.9	0.1	20.0	29.3	R (S)	7.5	(s)	0.0	R 0.1	27.2	R 112.2	R 49 0	R 161 2
2015	1.2	45.9	5.5	0.8		0.2	19.3	29.6	(s)	7.5	(s)	0.0	R 0.1 R 0.2	26.9 25.6	H 111.2	R 48.0 R 44.8	R 159.3 R 154.6
2016 2017	0.1 0.1	47.1 48.4	4.7 5.4	0.7 0.7	3.8 3.9	0.1 0.1	19.8 R 20.3	29.1 R 30.4	(s) R (s)	7.6 3.4	(s)	0.0	R 0.2	25.6 23.4	R 109.8 R 106.0	R 44.8 R 40.0	R 154.6 R 146.0
2017	0.1	49.0	4.7	0.7		0.1	R 19 0	R 28 4	0.0	3.4	(S)	0.0	R 0.3	22.9	104.0	H 37 6	H 141.5
2019	0.1	50.3	4.5	0.7	4.0	0.1	R 18.2	R 27.5	0.0	3.2	(s)	0.0	R 0.3	21.6	103.0	R 35.8	R 138 8
2020	0.0	47.1 49.0	4.0	0.7	4.0	(s) 0.1	R 18.6 R 19.5	R 27.4 R 29.2	0.0	3.1	(s)	0.0	R 0.3 R 0.3	21.2	R 99.2	R 32.2 R 33.4	R 131.4 R 136.7
2021 2022	0.0 0.0	49.0 49.1	4.9 5.0	0.7 0.7	4.0 4.2	0.1	20.0	29.9	0.0		(s) (s)	0.0	0.5		R 103.3 104.1	30.7	136.7
	0.0	70.1	0.0	0.7	7.2	0.1	20.0	20.0	0.0	0.0	(3)	0.0	0.0	21.0	104.1	55.7	10-1.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

M Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Massachusetts

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
1960	22 2	(s)	968	2,371	4	1,209 3,166	443	34,725	1,207 2,472	40,927	105			
1965 1970		(s) (s)	968 1,702	2,371 2,632 3,198	22 29	3,166	408	34,725 39,454 49,314	2,472	49,856 64,336	105 105			
1970 1975	(s) (s)	1	276	3,198 4,485	29	7,864 7,967	441 433	49,314 54,440	3,215 1,049	64,336 68,634	105 105			
1980 1985	0	i	228 274	4.900	33 26	8,563	433 463 422	51,161	900	68,634 66,287	167			
1985	0	1	134 97	7,600	70	6,984	422	54,292	874	70,375	193			
1990 1995	0	1 2	97 84	7,457 8,780	59 50	9,806 6,636	475 453	55,642 58,337	1,366 199	74,901 74,540	183 236			
2000	ő	3	116	10,050	50 56	8,204	453 484	64,443	539	74,540 83,891	239			
2005	Ó	3	117	12.255	40	9 025	408	67 081	646	89 572	402			
2006 2007	0	2	49 87	11,986 11,885	34	8,387 8,235	397 410	67,399 69,776	374 281	88,626 90,704	386 403			
2007	0	2	50	10,882	34 29 55 25	11,060	381	67,214	303	89.944	332			
2009	ŏ	2	97	10.898	25	6.205	343	65,680	398	89,944 83,646	356			
2010	0	5	56	11,026	10	8,553	392	65,653	284	85.975	355			
2011 2012	0	5	53 50	11,562 10,702	11 11	8,617 8,567	381 346	64,919 64,521	210 164	85,753 84,362 87,685	357 350			
2013	0	3	43 74	13,934	12	8,567 8,794	394 362	64,521 64,309	197	87.685	361			
2014	0	9	74	10,713	16	9,270	362	63,419	94		361			
2015	0	11	71	11,472	25	9,808	404	64,168	86	86,034	353			
2016 2017	0	9	69 67	11,486 10,588	25 33 57	11,400 12,271	R 383 340	64,895 63,757	200 330	11 88,465 R 87 410	342 348			
2018	Ö	8	77	11,339	14	12.643	R 329 R 311	64.221	110	R 88.734	349			
2019	Ö	11	77 77	11,339 11,135	11	13,633	R 311	64,221 63,067	211	R 88,446	343			
2020	0	9	63 71	10,750 R 10,438	26	5,600	R 257 R 276	49,947	13	86,034 R 88,465 R 87,410 R 88,734 R 88,446 R 66,655 R 74,941	323			
2021 2022	0	8	71 74	10,438	21 17	7,643 10,848	291	56,126 56,023	218 223	78,112	315 299			
							Tr	illion Btu						
1960	0.6	0.3	4.9	13.8	(s) 0.1	6.7	2.7	182.4	7.6	218.1	0.4	219.3	R 0.7	R 220.1
1965	(s) (s)	0.2 1.1	8.6	15.3	0.1	17.8 44.5	2.5 2.7 2.6	207.3	15.5	267.1	0.4	267.7	HO7	H 268.4
1970 1975	(s) (s)	1.1 0.5	1.4 1.2	18.6 26.1	0.1 0.1	44.5 45.1	2.7	259.0 286.0	20.2 6.6	346.5 367.7	0.4 0.4	348.0 368.5	R 0.7 R 0.7	R 348.7 R 369.3
1980	0.0	0.7	1.4	28.5	0.1	48.4	2.8	268.7	5.7	355.7	0.4	356.9	R 1.2 R 1.3 R 1.4 R 1.8	B 358.1
1985	0.0	1.4	1.4 0.7 0.5	44.3	0.3	39.5 55.5	2.6	285.2	5.5	378.0	0.7	380.0	R 1.3	H 381 4
1990	0.0	1.3	0.5	43.4	0.2	55.5	2.9	292.3	8.6	403.4	0.6	405.3	H 1.4	R 406.7 R 401.5
1995 2000	0.0 0.0	2.0 2.6	0.4 0.6	51.1 58.5	0.2 0.2	37.6 46.5	2.7 2.9	303.6 335.2	1.3 3.4	396.9 447.3	0.8 0.8	399.7 450.7	·· 1.8	** 401.5 452.6
2005	0.0	2.6 2.6	0.6	71.3	0.2	51.2	2.5	335.2 348.3	4.1	478.0	1.4	482.1	1.9 2.7 R 2.6	452.6 R 484.7
2006	0.0	2.2	0.2	69.6	0.1	47.6	2.4	349 5	2.4	471.7	1.3	475.4	R 2.6	H 478.0
2007 2008	0.0 0.0	2.5 1.9	0.4 0.3	68.7 62.9	0.1 0.2	46.7 62.7	2.5 2.3	358.8 343.2	1.8 1.9	479.0 473.5	1.4 1.1	483.1 476.7	R 2.6 2.1 R 2.1 R 2.0 R 2.1 R 2.2 R 2.2 R 2.1 R 2.0 R 2.0	R 485.7 R 478.8
2008	0.0	1.9	0.5	63.0	0.2	35.2	2.1	334.3	2.5	437.6	1.2	440.8	R 2.1	H 442.9
2010	0.0	4.7	0.3	63.7	(s)	48.5	2.4	332.7	1.8	449.3	1.2	455.2	R 2.1	n 457 3
2011	0.0	5.6	0.3	66.7	(s)	48.9	2.3	328.7	1.3	448.2	1.2	455.0	H 2.0	R 457.0
2012 2013	0.0 0.0	4.6 3.6	0.3 0.2	61.7 80.3	(s) (s)	48.6 49.9	2.1 2.4	326.6 325.4	1.0 1.2	440.3 459.5	1.2 1.2	446.1 464.3	™ 2.1 R 2.2	R 448.3 R 466.5
2013	0.0	8.7	0.2	61.7	0.1	52.6	2.4	325.4 320.8	0.6	439.5 438.4	1.2	464.3 448.3	R 2.2	R 450.5
2015	0.0	11.5	0.4	66.1	0.1	55.6	2.4	324.5	0.5	449.7	1.2	462.3	R 2.1	R 450.5 R 464.5
2016 2017	0.0 0.0	9.1	0.3 0.3	66.1 61.0	0.1	64.6	2.3 2.1	328.0 322.2	1.3	462.9	1.2	R 473.2 467.2	H 2.0	R 475.2 R 469.2
2017	0.0	8.6 8.5	0.3 0.4	61.0 65.3	0.2 0.1	69.6 71.7	2.1 2.0	322.2 324.6	2.1 0.7	457.4 464.7	1.2 1.2	467.2 474.4	R 2.0	R 476.4
2019	0.0	11.7	0.4	64.1	(s)	77.3	_ 1.9	318.6	1.3	463.7	1.2	476.6	R 1 9	H 478 5
2020	0.0	8.8	0.3	64.1 61.9	(s) 0.1	31.8	1.9 R 1.6	252.3	0.1	348.0	1.1	357 9	R 1 7	R 359 6
2021	0.0	R 7.6 8.7	0.4	R 60.2 60.6	0.1	43.3	H 1.7	283.4 282.9	1.4	R 391.2 409.2	1.1	R 399.9	R 1.7	H 401.6
2022	0.0	8.7	0.4	60.6	0.1	61.5	1.8	282.9	1.4	409.2	1.0	419.0	1.5	420.5

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Massachusetts

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	2,446	11	277	0	9,990	10,267	34	865		0	NA	NA	0	
1965 1970 1975 1980	4,066 575 804 676	13 6	337 1,176	Ö	12,157 42,301 39,912 45,726 23,645	12,494 43,477	966 1,209 3,781	564 682 350		Ö	NA	NA	Ŏ	
1970	575	6	1,176	0	42,301	43,477	1,209	682		0	NA	NA	0	
1975	804	1	503 616	0	39,912	40,415	3,781	350		0	NA	NA	0	
1980 1985	3,863	5 45	616 822	0	45,726	46,342	3,232 6,133	96 200		0	NA	NA 0	0	
1900	3,003 4,234	61	614	0	23,043	24,467 24,120	5,070	1,238		0	0	0	4,311	
1990 1995 2000 2005	4,234	128	678	0	9 143	9 820	4 486	858		0	0	0	1,921 1,790 1,779 2,244	
2000	4,485	128 88 152	376	Ö	13.627	14,003 10,685	4,486 5,512 5,475	1.053		Ö	Ŏ	Ŏ	1,779	
2005	5,025	152	381	0	10,304	10,685	5,475	1,041		0	0	0	2,244	
2006 2007	4,750	169	614 678 376 381 155 144 192	0	23,505 9,143 13,627 10,304 3,844 4,928 3,372	3,999 5,072	5,830 5,120	1,053 1,041 1,504 778		0	0	0	580 734 3,849	
2007	5,120	183	144	0	4,928	5,072	5,120	778		0	0	0	734	
2008	4,234 4,080 4,485 5,025 4,750 5,120 4,581 3,892 3,497	155	192	0	3,372	3,563	5,869 5,206	1,142		0	0	4 6	3,849	
2009 2010	3,092	186	138	0	1,208 329	468	5,396 5,918	1,186 986		0	1	20	4,573 3,388	
2011	1.763	169 183 155 150 186 180 154 135 157 156	254 138 143 107 257 454 346 68 174	0	191	3,563 1,462 468 333 253 672	5.085	1,137		0	4	52	4,426	
2012	954	180	107	Ö	145	253	5,860	903		Ö	29	80	993	
2012 2013 2014	1,763 954 1,718 1,244 1,005 907 559	154	257	0	416	672	5,085 5,860 4,331 5,769	982 891		0	106 301	52 80 190 197	1,245 1,419	
2014	1,244	135	454	0	1,105	1,559	5,769	891		0	301	197	1,419	
2015 2016	1,005	15/	346	0	923 508 299	1,559 1,269 576 472 763 175	4,995 5,414 5,047	817 708		0	448	186 194 210	1,330 1,011	
2016	907 550	150	17/	0	200	5/6 472	5,414 5,047	1,028		0	603 781	210	1,011	
2017	0	134	288	0	475	763	4 442	1 130		0	973	196	980	
2018 2019	Ŏ	134 113	288 65	Ŏ	475 110	175	4,442 2,177	1,130 970		Ŏ	1.154	196 185	12	
2020	0	105	60	0	18	/8	0	839		0	1,393	214	0	
2021 2022	0	112 115	60 64 681	0	80 471	144 1,152	0	1,112 872		0	1,393 1,576 1,920	186 191	0	
2022	0	115	681	0	4/1			8/2		0	1,920	191	0	
							Trillion Btu							
1960	64.5 106.0 13.4 19.6	11.2 13.3 5.7	1.6 2.0 6.8 2.9 3.6 4.8	0.0	62.8 76.4 265.9 250.9	64.4 78.4	0.4	H 3.0	0.0	0.0	NA	NA	0.0 0.0 0.0 0.0	R 143.4 R 211.0 R 307.5 R 317.7 R 349.4 R 382.7
1965 1970	106.0	13.3	2.0	0.0 0.0 0.0	/6.4	/8.4	11.4 13.3 41.6	n 1.9	0.0	0.0 0.0	NA	NA	0.0	<sup>n</sup> 211.0
1975	10.4	1.4	2.0	0.0	265.9	272.8 253.8	/1.5	R 1 2	0.0 0.0	0.0	NA NA	NA NA	0.0	R 317.7
1980	18.1	5.1	3.6	0.0	287.5	291.1	35.3	R 0.3	0.0	0.0	NA	NA	0.0	R 349.4
1980 1985	18.1 102.6	5.1 46.9	4.8	0.0 0.0	287.5 148.7	291.1 153.4	35.3 65.1	R 0.7	0.0 0.0	0.0 0.0	0.0	0.0	0.0 14.7	R 382.7
1990 1995 2000	110.6 103.6 112.7	63.8 131.6 91.2	3.6 3.9 2.2 2.2 0.9 0.8 1.1 1.5 0.8	0.0	147.8 57.5 85.7	151.4 61.4 87.9	53.6 47.1 57.5	R 4.2	24.4 31.4 34.1	0.0 0.0 0.0	0.0	0.0 0.0 0.0	6.6	R 414.5 R 384.1 R 393.0
1995	103.6	131.6	3.9	0.0	57.5	61.4	47.1	n 2.9	31.4	0.0	0.0	0.0	6.1 6.1	n 384.1
2000	112.7	91.2	2.2	0.0	85.7	87.9	57.5	11 3.6 B 2.6	34.1	0.0	0.0 0.0	0.0	6.1 7.7	H 393.0
2005 2006	116.4 109.7	157.4 174.4 189.9 160.3 155.3 192.7 193.2 186.1 159.8	0.9	0.0 0.0	64.8 24.2	67.0 25.1 31.8 22.3 9.1 2.9	57.1 60.8	R 5.1	21.1 21.0 20.1 21.7	0.0 0.0	0.0	0.0	2.5 13.1 15.6 11.6	R 430.3 R 398.1 R 418.1 R 387.3 R 352.2 R 375.5
2007	117 4	189.9	0.8	0.0	31.0	31.8	53.7	R 2.7	20.1	0.0	0.0	0.0	2.5	R 418.1
2008 2009 2010	104.7 90.7 82.1	160.3	1.1	0.0	21.2 7.6 2.1	22.3	61.3	R 3.9	21.7	0.0	0.0	_ (s)	13.1	R 387.3
2009	90.7	155.3	1.5	0.0 0.0	7.6	9.1	56.4 61.9	R 4.0	20.9 20.9	0.0 0.0	0.0	_R (s)	15.6	R 352.2
2010	82.1	192.7	0.8	0.0	2.1	2.9	61.9	H 3.4	20.9	0.0	(s)	H 0.1	11.6	H 375.5
2011	41.3 22.4 40.6	193.2	0.8	0.0	1.2	2.0 1.5 4.1	53.2	n 3.9	19.6 19.3 19.4	0.0	(s) R 0.1 R 0.4	n 0.2	15.1 3.4 4.2	R 328.5 R 297.6 R 277.7
2012 2013	22.4 40.6	186.1 150.0	U.6 1.5	0.0 0.0	0.9 2.6	1.5	61.4 45.3	11 3.1 R 3.4	19.3	0.0	R 0.1	R 0.3	3.4	R 277.7
2014	28.3	139.0	0.8 0.6 1.5 2.6 2.0 0.4	0.0	6.9	9.6	60.3	R 3 0	20.8	0.0	R 1.0	(s) R (s) R 0.1 R 0.2 R 0.3 R 0.6 R 0.7 R 0.6 R 0.7	4.2	R 267 6
2014 2015	23.0	139.0 161.3	2.0	0.0	6.9 5.8	7.8	52.2	R 2.8	20.1	0.0	R 1.5	R 0.6	4.5	R 273.8
2016	28.3 23.0 20.0	161.1	0.4	0.0	3.2	9.6 7.8 3.6	60.3 52.2 56.6	R 2.4	20.8 20.1 20.2	0.0 0.0 0.0	R 2.1	R 0.7	4.8 4.5 3.4	R 267.6 R 273.8 R 270.1
2017 2018	12.3 0.0	167.9 138.0	1.0 1.7	0.0 0.0	1.9 3.0	2.9 4.6	52.8 46.4	R 3.5	20.0	0.0 0.0	R 2.7	R 0.7 R 0.7	0.5	R 263.2
2018	0.0	138.0	1.7	0.0	3.0	4.6	46.4	H 3.9	19.9	0.0	H 3.3	H 0.7	3.3	H 220.2
2019	0.0	116.1	0.4	0.0	0.7	1.1	22.7	n 3.3	17.3	0.0	n 3.9	n 0.6	(s)	n 165.2
2020 2021	0.0	107.9 11/1 Q	0.3	0.0	0.1 0.5	0.5 0.0	0.0	∠.9 R 3 g	17.3	0.0	4.6 R 5.4		0.0	194.1 R 142.2
2021	0.0 0.0 0.0	107.9 114.8 118.9	0.4 0.3 0.4 3.9	0.0 0.0 0.0	0.1 0.5 3.0	0.5 0.9 6.9	0.0 0.0 0.0	R 3.0 R 1.23 R 1.23 R 1.23 R 1.23 R 1.23 R 1.23 R 1.24 R 1.25 R 1.29 R 1.30 R 1	20.0 19.9 17.3 17.3 16.7 8.3	0.0 0.0 0.0	R 1.0 R 1.5 R 2.1 R 2.7 R 3.3 R 3.9 R 4.8 R 5.4 6.6	R 0.6 R 0.7 R 0.6 0.7	0.5 3.3 (s) 0.0 0.0	R 263.2 R 220.2 R 165.2 R 134.1 R 142.2 144.2
		5.0	2.0			2.0			2.0					

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Michigan

$\overline{}$						Petroleum								
						Petroleum				-	Usadan			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	d barrels
1000	05.000	070	22.225	2.227	0.000	05.700	11.010	44.007	100.000		0.000			
1960 1965	25,930 33,132	370 556	30,235 30,287	2,827 3,716	3,369 4.377	65,782 78.044	11,840 8.594	14,867 19.635	128,920 144.653	0 181	2,030 1.813	0	NA NA	NA NA
1965 1970	33,132 34,065	556 809	38.141	6,202	4,377 7,365	78,044 96,831 99,540	8,594 10,056 11,173	19,635 16,357	126,920 144,653 174,952 181,438 196,393 204,784	181 375	1,813 1,704 1,776 1,793 1,054 1,182 1,110	0	NA	NA
1971 1972	34,556 34,666	851 865	41,724 47,365	6,755 7,993	7,195 6,905	105 198	11,1 <i>7</i> 3 13,078	15,051 15,855	181,438 196,393	388 2,125	1,7/6 1 793	0	NA NA	NA NA
1973	32.632	920	46.932	8 092	6 959	110,100 107,057 108,255	15 822	16 879	204,784	2,980	1,054	ŏ	NA	NA
1973 1974 1975	29,804 31,198	936 884	43,673 42,170	7,845 7,475	6,460 5,776	107,057	16,692 18,291	15,629 14,433	197,356 196,401	416 7,176	1,182	0	NA NA	NA NA
1975	29.763	888	44,130	7,475 8.748	5,776	113.506	21,102	14,433	208,766	9,901	1,110	0	NA NA	NA NA
1976 1977	29,763 28,926	888 741	44,130 44,829	8,748 8,793	5,735 6,290	113,506 114,812	22,126	15,547 16,669	213.518	10.231	1,050 931	0	NA NA	NA NA
1978 1979	28,519 31,570	790 876	45,149 31,268	9,051 7,515	6,499 6,639	117,526 108,261	25,452 19,046	17,534 17,226	221,211 189,955	13,104 15,139	1,085 1,306	0	NA NA	NA NA
1980	31.110	865	27.643	7,515 6,736 5,572 7,107 7,150 7,523 14,225 15,690	6 646	97 025	13 289	15,192 11,720	166,531	15.891	1,200	Ö	NA	NA
1981 1982	31,610	801	26,630	5,572	6,131 5,706	92,783 88,179	7,825 4,891	11,720	166,531 150,661 138,795	17,066	1,200 1,240 1,211	0	184	NA NA
1982	29,280 29,647	748 696	22,943 22,176	7,107	5,706 5.892	88,179 88,646	4.464	9,969 10,797	138,795	15,003 16.383	1,211	0	491 1,316	NA NA
1983 1984	31,412	696 718	22,176 24,913	7,523	5,892 5,983	88,646 92,952	3,116	10,797 11,298	139,125 145,785	16,383 14,078	1,229 1,071	Ö	1,295 1,032 830	NA
1985 1986	32,793 33,999	709 671	26,024 26,989	14,225	6,570 7,129	93,447 96,015	3,109 3,761	10,387 10,886	153,761 160,470	13,452 12,257	997 721	0	1,032	NA NA
1987	35.865	657	26 614	17,656	8 371	99 15/	3.316	11,802	166 913	14,389	481	0	1.176	NA
1988 1989	35,332	749 777	28,392 26,202	17,302	8,585 9,235	102,367	4,793	11,802 11,118	172,559 172,888	14,389 17,808 21,312	600	0	1,214	NA NA
1989 1990	34,885 34,817	/// 879	26,202 24,357	19,053 14,901	9,235 10,057	101,143 99 913	4,497 2,728	12,757 12,598	1/2,888 164 553	21,312 21,611	749 1 628	0	1,164 1,205	NA NA
1990 1991	34.086	888	24,357 24,820	17,656 17,302 19,053 14,901 16,017	10,057 10,234	102,367 101,143 99,913 101,375	1.745	12,598 11,413	164,553 165,604	27 021	1,628 1,752	ŏ	1.582	NA
1992 1993	31,781 32,445	960 919	24,830 28,123	16,666 13,077	10,125 10,305	101,370 105,003	1,696 2,081	11,637 12,647	166,325 171,235	18,849 28,525 14,144	1,782 1,782 1,762 1,660 1,597 1,784 1,712	0	1,367 1,609	NA NA
1994	35,902	919	20,123	13,077	10.281	105,003	2,172	12,047	171,235	20,525	1,762	0	1,609	NA
1995 1996	36,037	912 976 1,027	27,536 27,444 28,754	14,497	8,818	105,744 110,546 110,520	1,602	12,125 13,400	172,145 176,308 181,052	24,448 26,829	1,597	Õ	1,859 1,219	NA NA
1996	36,958 36,116	1,027	28,754	18,306	9,045	110,520	1,777	12,651 16,765	181,052	26,829	1,784	0	514 654	NA NA
1997 1998	38.255	994 876	29,692 29,895	13,108	9,487 9,033	112,389 114,913	1,553 2,113	16,765 16,007	184,411 185,069 195,707 189,214	21,914 12,494	1,397	Ō	845	NA
1999 2000	38,510 37,294	951 963	31,573 30,824	15,339	9.116	121,027	2,491 2,358	16,161 14,351	195,707	14,591 18,882	1,458 1,428	0	956 2,267	NA NA
2001	37 730	906	29 515	18,308	7,214 6,219	121,027 118,160 119,472 121,745 119,019	1 590	14,351	18/811	18,882 26,711	1,428	0 (s)	1,394	NA 6
2002 2003	36,413	966	28,994 30,344	21,039	6,016	121,745	1,992 2,153	12,139 12,019	191,806 187,589	26,711 31,087 27,954	1,669	(s) 3	2,953	9
2003	36,973 38,503	925 917	30,344 31,139	20,578	2,695 3,733	119,019	2,153	12,800	187,589 189,815	27,954	1,386	3	3,706 3,838	8
2004 2005	39.442	914	30.315	14,287 14,497 18,306 14,524 13,108 15,339 16,308 18,876 21,039 20,578 20,826 23,157	3.431	118,967 119,584	2,098 2,209	13,051 12,715	404 444	30,562 32,872	1,562 1,669 1,386 1,540 1,462	2 2	5.091	15 52 149 202
2006 2007	38,067 39,669	803	29,929 29,371	15,036 16,217	4,124 5,270	118,304 118,106 116,059 111,410 109,703 108,436 105,871 105,052	1,201 1,783	11,595 12,056	179,992	29,066 31,517	1,520 1,270	2	5.358	149
2007	39,669 39,870	798 780	29,371 26,713	16,217 12,506	5,270 4,641	116,059 111 410	1,783 1,471	12,056 9,975	180,757 166,715	31,517 31 484	1,270 1,364	3 141	6,573 9,010	202 174
2009	37,425	735 747	25.622	12,506 11,829 R 12,022 R 11,762 R 10,308	4.270	109,703	615	9,975 9,839	161,879	31,484 21,851	1,364 1,372	300	10,205	184 149
2010	37 775	747	26 443	H 12,022	8,583 8,797	108,436	593 688 511	8 529	H 164,604	29,625 32,889 28,020	1,251	360	9,763	149
2011 2012	35,134 32,050	776 791	26,691 25,676	R 10.308	8.656	105,871	511	7,804 8,170	R 158.372	32,889 28.020	1,357	456 1,132	9,987 10,628	507 478
2013 2014	34,315	815 862 845	28,591 29,042 29,956	R 13,277 R 13,819	8,751 8,760	109,078 109,118 111,408	406 274 256	8,170 9,837 11,693 11,655 R 12,136 R 12,972 R 12,511 R 12,194 R 12,228	191,411 179,992 180,757 166,715 161,879 R 164,604 R 161,614 R 158,372 R 169,939 R 172,706	28,921 31,246	1,419	2 800	11,235 11,035 10,507	848 783
2014 2015	34,315 31,944 31,925	862 845	29,042 29,956	<sup>H</sup> 13,819 10,949	8,760 9,796	109,118 111 408	274 256	11,693 11,655	□ 172,706 174,019	31,246 29,334	1,600 1 400	3,868 4,797	11,035 10,507	71/
2016 2017	24,656 26,032	890 871	29 780	11,635 11,648	10,013 10,289	113,495 112,289	512 733	R 12,136	R 177,570	31,552 32,381	1,564	4,696	10,738 10,781	1,052
2017	26,032	871	27,630	11,648	10,289	112,289	733	R 12,972	R 175,562	32,381	1,679	5,191	10,781	1,052 826 830 R 636
2018 2019	26,277 23,196	966 998	31,280 30,097	13,549 13,968 12,744	10,049 10,017	112,532 110,975	832 927	R 12,511	R 178.178	30,479 32,909	1,569	5,457 5,826	10,066	R 636
2020	17.145	948	27 199	12,744	5 405	94 915	669	R 12,228	R 153,160	30.333	1,713	6.735	9,476	/68
2021 2022	22,472 21,602	899 1,030	R 27,545 28,049	12,417 12,636	6,833 7,710	103,742 102,060	855 867	R 13,180 14,432	174,019 R 177,570 R 175,562 R 180,753 R 178,178 R 153,160 R 164,573 165,755	34,338 26,013	1,251 1,357 1,207 1,419 1,600 1,499 1,564 1,679 1,669 1,650 1,713 1,340 1,386	7,697 9,151	10,666 10,729 9,476 10,427 10,287	R 661 673
2022	21,002	1,030	20,049	12,030	7,710	102,000	007	14,432	100,755	20,013	1,300	9,131	10,207	0/3

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Michigan (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
						Petroleum						as commingieu)	T
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	653.1	383.0	176.1	10.8	18.2	345.6	74.4	88.2	713.4	1,749.5	383.0	176.1	345.6
1965	830.2	563.6	176.4	14.2	24.0	410.0	54.0	113.1	791.6	2,185.4	563.6	176.4	410.0
1970 1971	828.9 837.6	821.3 863.3	222.2 243.0	23.7 25.8	41.0 40.0	508.7 522.9	63.2 70.2	97.2 90.1	955.9 992.0	2,606.0 2,693.0	821.3 863.3	222.2 243.0	508.7 522.9
1971	843.7	877.7	275.9	30.5	38.4	552.6	82.2	95.3	1,074.9	2,796.3	877.7	275.9	552.6
1973	791.3	929.6	273.4	30.8	38.8	578.4	99.5	102.0	1,122.7	2,843.6	929.6	273.4	578.4
1974	710.0	942.6	254.4	29.8	35.9	562.4	104.9	94.6	1,082.0	2,734.6	942.6	254.4	562.4
1975 1976	751.0 717.7	894.8 895.1	245.6 257.1	28.3 33.0	32.1 31.9	568.7 596.2	115.0 132.7	86.9 92.6	1,076.6 1,143.5	2,722.4 2,756.4	894.8 895.1	245.6 257.1	568.7 596.2
1976	693.0	745.7	261.1	33.0	35.0	603.1	132.7	99.7	1,171.0	2,750.4	745.7	261.1	603.1
1978	671.3	793.9	263.0	33.7	36.3	617.4	160.0	104.7	1,215.1	2,680.3	793.9	263.0	617.4
1979	758.9	880.4	182.1	27.9	37.1	568.7	119.7	102.8	1.038.3	2,677.6	880.4	182.1	568.7
1980 1981	759.0 757.5	874.7 811.4	161.0 155.1	25.0 20.8	37.1 34.3	509.7 487.4	83.6 49.2	90.2 71.1	906.7 817.8	2,540.3 2,386.7	874.7 814.5	161.0 155.1	509.7 487.4
1982	711.4	762.1	133 6	26.1	31.8	463.2	30.7	60.2	745.8	2.219.2	764.6	133 6	463.2
1983	706.6	762.1 710.1	129.2	26.1 26.5	32.9	465.7	30.7 28.1	64.9	747.2	2,164.0	713.2	129.2	465.7
1984	747.6	727.5	145.1	28.1	33.4	488.3	19.6	67.7	782.1	2,257.3	730.3	145.1	488.3
1985 1986	781.9 811.9	717.0 686.6	151.6 157.2	51.0 56.8	36.7 39.9	490.9 504.4	19.5 23.6	62.7 66.2	812.4 848.2	2,311.3 2,346.7	719.9 689.4	151.6 157.2	490.9 504.4
1987	840.2	668.7	155.0	64.5	46.9	520.9	20.8	71.5	879.7	2,388.6	671.2	155.0	520.9
1988	830.9	763.3	165.4	63.3	48.1	537.7	30.1	67.2	911.8	2,506.0	765.7	165.4	537.7
1989 1990	790.2 788.0	797.3 879.3	152.6	70.1 54.5	51.8	531.3 524.8	28.3 17.2	77.6 76.8	911.7 871.8	2,499.3 2,539.2	799.8 898.8	152.6 141.9	531.3
1990	764.1	879.3 890.0	141.9 144.6	54.5 58.6	56.6 57.5	524.8 532.5	17.2	69.8	871.8 873.9	2,539.2	905.3	141.9	524.8 532.5
1992	707.5 715.5	964.2	144.6	61.0	57.0	532.5 542.2	10.7	71.0	876.8	2,548.5 2,544.1	979 2	144 6	532.5
1993	715.5	924.9	163.8	48.8	58.1	542.2	13.1	77.7	903.7	2,544.1	938.0	163.8	547.8
1994 1995	801.0 786.7	917.0 971.0	160.3 159.7	53.2 53.9	58.2 50.0	544.9 571.1	13.7 10.1	74.1 82.7	904.3 927.4	2,622.3 2,685.1	931.0 992.7	160.3 159.7	551.3 575.3
1995	796.7 796.3	1,017.1	167.3	68.1	51.3	571.1 574.1	11.2	77.3	949.3	2,762.7	1,039.2	167.3	575.9
1997	781.1	987.6	172.8	54.9	53.8	582.7	9.8	104.6	978.5	2,747.3	1,010.2	172.8	585.0
1998	826.9	871.6	174.0	49.9	51.2	595.0	13.3	99.0	982.3	2,680.8	894.0	174.0	597.9
1999 2000	832.6 799.8	947.0 971.7	183.7 179.4	58.0 61.4	51.7 40.9	626.3 606.7	15.7 14.8	99.5 88.7	1,034.8 991.9	2,814.5 2,763.3	968.3 984.3	183.7 179.4	629.6 614.5
2000	789.6 789.7	971.7	179.4	71.5	35.3	616.5	10.0	75.7	980.7	2,763.3	928.7	179.4 171.7	621.4
2002	739.9	984.7	168.7	79.4	34.1	622.7	12.5	74.5	992.0	2,716.6	984.7	168.7	633.0
2003	747.9	950.7	176.6	77.9	15.3	605.7	13.5	79.5	968.4	2,667.1	950.7	176.6	618.5
2004 2005	773.8 799.5	938.6 927.5	181.2 176.4	77.9 86.4	21.2 19.5	604.8 603.2	13.2 13.9	81.4 79.6	979.7 978.9	2,692.1 2,705.9	938.6 927.5	181.2 176.4	618.2 620.9
2006	773.6	817.0	173.7	55.9	23.4	593.8	7.6	72.3	926.6	2,517.2	817.0	173.7	612.4
2007	773.6 801.2	814.9	169.9	60.4	29.9	574.0	11.2	74.4	919.8	2,535.8	814.9	169.9	596.8
2008	800.0	797.5	154.4	47.6 _ 44.9	26.3	537.6	9.2	61.2	836.4	2,433.9	797.5	154.4 148.0	568.9
2009 2010	735.9 749.3	750.8 758.7	146.7 151.8	R 46.2	24.2 48.7	523.1 515.6	3.9 3.7	60.9 52.8	803.6 R 818.7	2,290.3 R 2,326.7	750.8 758.7	148.0 152.7	558.4 549.4
2011	691.1	787.3	151.7	H 45 2	49.9	501.4	4.3	48.1	H 800 6	H 2 279 1	787.3	154.0	536.0
2012	621.6	804.1	145.6	R 39.6 R 51.0	49.1	494.9	3.2	50.4	H 792 9	H 2 208 5	804.1	148.1	531.8
2013 2014	658.2 618.5	831.7 878.1	159.9 162.7	<sup>R</sup> 51.0 <sup>R</sup> 53.1	49.6 49.7	512.9 513.7	2.6 1.7	59.6 70.6	R 835.7 R 851.4	R 2,325.6 R 2,348.0	831.7 878.1	164.8 167.4	551.9 552.0
2014	617.3	871.8	167.6	42.1	55.5	526.9	1.6	70.8	864.5	2 353 6	871.8	172.6	563.4
2016	471.2	926.8	164.7	44.7	56.8	536.4	3.2	R 74 5	880.3 R 870.2	R 2 278 4	926.8	171.4	573.7
2017	499.4	908.2	153.3	44.7	58.3	529.9	4.6	H 79 4	H 870.2	n 2 277 9	908.2	159.1	567.4
2018 2019	506.1 447.8	1,010.9 _ 1,055.0	174.2 168.0	52.0 53.7	57.0 56.8	531.6 523.3	5.2 5.8	R 76.6 R 74.8	R 896.5 R 882.4	R 2,413.6 R 2,385.2	1,010.9 _ 1,055.0	180.1 173.3	568.7 560.6
2019	334.4	R 1.004.2	151.3	49.0	30.6	523.3 446.6	5.6 4.2	H 75 1	H 756.8	H 2 N95 4	R 1 004 2	156.6	479.5
2021	436.2	<sup>H</sup> 950.4	R 156.5	47.7	38.7	487.6	5.4	H 80.6	R 814.5	<sup>H</sup> 2,201.1	H 950.4	R 158.8	523.9
2022	423.5	1,087.6	159.4	48.5	43.7	479.5	5.5	87.7	822.2	2,333.3	1,088.2	161.7	515.3

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Michigan (continued) (trillion Btu)

							Renewable en	ergy							
					Bio	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 6.9	37.3	NA	NA	NA	NA	37.3	0.0	NA	NA	R 44.2	R 9.2	4.3	R 1,807.1
1965 1970	2.1 4.1	R 6.2 R 5.8 R 6.1	36.9 36.4	NA NA	NA NA	NA NA	NA NA	36.9 36.4	0.0 0.0	NA NA	NA NA	R 43.1 R 42.2 R 41.4 R 43.7	H -9.0 R -10.3	-1.4 -1.4	R 2,220.2 R 2,631.7 R 2,720.9 R 2,892.8
1971	4.2	R 6.1	35.3	NA	NA	NA NA	NA NA	35.3	0.0	NA	NA NA	R 41.4	H -19.4	1.8	R 2,720.9
1972 1973	22.9 32.5	R 6.1 R 3.6	37.6	NA NA	NA NA	NA NA	NA NA	37.6	0.0 0.0	NA NA	NA NA	H 43.7	H 21 3	8.5	H 2,892.8
1974	4.6	R 4.0	36.3 38.2	NA	NA	NA	NA	36.3 38.2	0.0	NA	NA	R 39.9 R 42.3	R 54.2 R 38.8	12.2 12.4	R 2,982.4 R 2,832.8
1975	79.0	R 3.8	35.9	NA	NA	NA	NA	35.9	0.0	NA	NA	R 39.7 R 45.2	R -55.6 R -12.7 R 25.1	1.1	H 2.786.5
1976 1977	109.4 110.2	R 3.6 R 3.2	41.6 45.0	NA NA	NA NA	NA NA	NA NA	41.6 45.0	0.0 0.0	NA NA	NA NA	R 45.2 R 48.2	R 25.1	9.5 20.9	R 2,907.7 R 2,814.0
1978	143.4	R 3.7	55.0	NA	NA	NA	NA	55.0	0.0	NA	NA	R 48.2 R 58.7 R 64.8	R -35.9 R -55.0	23.0	n 2.869.5
1979 1980	164.7 173.3	R 4.5 R 4.1	60.4 90.6	NA NA	NA NA	NA NA	NA NA	60.4 90.6	0.0	NA NA	NA NA	n 64.8 R 94.7	n -55.0 R -69.5	(s) 19.4 15.2	R 2,852.2 R 2,758.2
1981	173.3 188.2	R <sub>4.2</sub>	95.3	0.6	NA	NA	0.0	90.6 95.9	0.0 0.0	NA NA	NA	R 94.7 R 100.1	R -69.5 R -78.6	15.2	R 2,758.2 R 2,611.7
1982 1983	166.1 178.7	R 4.1 R 4.2	94.8 104.8	1.7 4.6	NA NA	NA NA	0.0 0.0	96.5 109.4	0.0 0.0	NA NA	NA 0.0	R 100.6 R 113.6	R -38.8	7.3 4.3 1.9	R 2,454.5 R 2,443.0
1984	152.7	R 3.7	99.1 100.2	4.5 3.6	NA	NA	0.0	103.6 103.8	0.0	0.0	0.0	R 107.2 R 107.2	R -17.6 R 3.0	1.9	H 2.522.1
1985	142.9 129.7	R 3.4	100.2 105.6	3.6 2.9	NA NA	NA NA	0.0 0.0	103.8 108.5	0.0 0.0	0.0 0.0	0.0 0.0	H 107.2	R 5.3	1.3	R 2,568.1
1986 1987	150.3	R 2.5 R 1.6	107.1	2.9 4.1	NA NA	NA NA	0.0	111.1	0.0	0.0	0.0	R 110.9 R 112.8	R -6.9 R -74.2	2.3 2.6	R 2,582.7 R 2,580.0
1988	188.8	R 2.0 R 2.6	112.2	4.2	NA	NA	0.0	116.4	0.0	0.0	0.0	H 118 4	R -54.2	0.6	R 2,759.6 R 2,782.5 R 2,853.9 R 2,789.7
1989 1990	225.5 228.7	H 2.6	103.3 80.2	4.0 4.2	NA NA	NA NA	0.0 0.0	107.3 84.4	0.5 0.6	0.2 0.2	0.0 0.0	R 110.6 R 90.8 R 98.5	R 32.5	-18.5 -37.3	R 2,782.5
1991	283.3	R 5.6 R 6.0	86.2	4.2 5.5	NA	NA	0.0	84.4 91.7	0.6	0.2	0.0	R 98.5	R -54.2 R -34.4 R 32.5 R -118.6 R -8.1	-1.5	R 2,789.7
1992 1993	197.4 299.6	R 6.1 R 6.0 R 5.7	89.1 81.4	4.7 5.6	NA NA	NA NA	0.0 0.0	93.9 86.9	0.7 0.7	0.2 0.2	0.0 0.0	R 100.9	R -109 0	-0.8 8.2	R 2,837.8 R 2,836.8
1994	147.8	R 5.7	84.3	6.4	NA	NA	0.0	90.8	0.8	0.3	0.0	R 93.9 R 97.4	R -109.0 R -31.0	23.6	R 2,836.8 R 2,860.2
1995 1996	256.9 281.8	R 5.4 R 6.1	88.2 102.9	4.2 1.8	NA NA	NA NA	0.0 0.0	92.4 104.6	0.8 0.9	0.3 0.3	0.0 0.0	R 98.9 R 111.9	R -70.7 R -68.8	19.7 6.5	R 2,989.9
1997	230.0	R 6.1 R 5.8	95.0	2.3	NA	NA	0.0	104.6 97.3	1.0	0.3	0.0	R 104 4	R -68.8 R 8.0	4.7	R 3,094.1 R 3,094.3
1998 1999	131.1 152.5	R 4.8 R 5.0	90.4 91.6	2.9	NA NA	NA NA	0.0	93.3 94.9	1.0	0.3	0.0	R 99.4 B 101.3	R 137.9 R 141.8	-5.2 -0.7	R 3,043.9
2000	152.5 196.9	R 4.9 R 5.3	94.6	3.3 7.9	NA	NA	0.0 0.0	102.4	1.2 1.2	0.3 0.2	0.0 0.0	R 101.3 R 108.7 R 88.2	R 143.8 R 37.7	-1.1	R 3,209.4 R 3,211.6
2001 2002	278.9 324.6	H 5.3 R 5.7	76.6 70.7	4.8 10.2	(s) 0.1	NA NA	0.0 0.0	81.4 81.0	1.2 1.4	0.2 0.2	(s) (s)	<sup>H</sup> 88.2 <sup>R</sup> 88.2	<sup>H</sup> 37.7 <sup>R</sup> 26.9	-7.2 -7.6	R 3,092.6 R 3,148.7
2002 2003 2004	291.3	R 4.7 R 5.3	81.1	12.9	(s)	NA	2.6 2.9	96.6	1.4 1.8 1.9	0.2 0.2 0.2	(S) (S)	R 103.3 R 108.0	R 137.5 R 45.1	-7.6 -12.2 -10.9	R 3,187.0 R 3,153.0
2004	318.7	R 5.3 R 5.0	84.3	13.3	(s) 0.1	NA	2.9	100.5	1.9	0.2	(s)	R 108.0 R 121.3	R 45.1	-10.9	R 3,153.0
2005 2006	343.0 303.3	Rso	93.1 88.2	17.7 18.6	0.3 0.8	NA NA	2.7 4.5	113.8 112.0	2.2 2.6	0.3 0.3	(s) (s)	R 120 1	R 43.0 R 99.7	-9.3 -7.2	R 3,203.9 R 3,033.1
2007	330.6	R 4.3	90.3	22.8	1.1	NA	10.5	124.7	3.0	0.4	(s)	R 132.4 R 148.7	H 19 N	-4.1	H 3 013 7
2008 2009	329.1 228.5	R 4.7 R 4.7	94.8 80.5	31.2 35.3	0.9 1.0	NA NA	12.7 11.8	139.6 128.7	3.5 4.3	0.4 0.4	R 0.5 R 1.0	P 148.7 R 139.1	R -13.7	7.9 19.2	R 2,905.8 R 2 679 3
2010	309.6	R 4.3	89.4	33.8	0.8	NA	15.1	139.1	4.9	0.4 R 0.4	H12	R 139.1 R 150.0	2.1 R -24.4 R 8.7	12.2	R 2,679.3 R 2,774.1
2011 2012	344.2 293.6	R 4.6 R 4.1	101.1 97.6	34.6 36.9	2.7 2.6	0.0 0.0	15.0 14.4	153.4 151.4	5.1 5.2	R 0.5 R 0.6	R 1.6 R 3 a	R 165.1 R 165.1 R 182.9	R 21 2	13.9 14.6	R 2,810.9
2013	302.2	n / g	104.3	39.0	4.5	0.0	14.9	162.7	5.2	R 0.6	R 3.9 R 9.6	R 182.9	R 21.2 R 12.0	19.9	R 2,703.0 R 2,842.5
2014 2015	326.8 306.8	R 5.5	105.9 119.5	38.3 36.5	4.2 3.8	0.0 0.0	15.0 15.0	163.5 174.8	5.2 5.2 5.2 5.2 5.2	R 0.6 R 0.6	R 13.2	R 187.9 R 202.1	R -3.1 R -99.1	19.9 28.3	R 2,879.6 R 2,791.6
2016	330.0	R 5.1 R 5.3 R 5.7	112.4 107.9	37.3 37.5	5.6	0.0	15.2 18.2	170.5	5.2 5.2 5.2	R 0.7	R 16.4 R 16.0 R 17.7	R 197 8	R -62.2	26.6 19.5	R 2,770.6 R 2,759.5
2017 2018	338.7 318.7	R 5.7 R 5.4	107.9 114.9	37.5 37.2	4.4 4.4	0.0 0.0	18.2 19.1	168.0 175.7	5.2	R 0.9 R 1.2	R 17.7 R 18.6	R 197.6 R 206.0	R -62.2 R -74.1 R -87.4	19.5 22.1	R 2,759.5 R 2,873.0
2018	343.6	R 5.6		37.4	3.4	0.0	18.1	170 1	5.2 5.2	R 1 1	R 19.9	R 202.1	R -99.1 R -39.0	9.0	Ragana
2020	316.9 R 358.1	H 5.8	111.2 R 92.8	32.9	4.1	0.0	16.3	H 146.2	5.2 5.2	R 1.6	R 19.9 R 23.0 R 26.3	R 181.8	R -39.0 R -100.9	5.8	R 2,560.9 R 2,654.8
2021 2022	<sup>n</sup> 358.1 271.3	R 4.6 4.7	R 93.8 98.0	36.3 35.8	3.5 3.6	0.0 0.0	16.9 17.4	R 150.5 154.9	5.2 5.2	R 2.6 4.3	7 26.3 31.2	R 189.1 200.3	-100.9 -104.0	7.5 6.0	2,654.8 2.706.8
	20	,	33.0	55.6	0.0	0.0			J.L		J.1.E	200.0		3.0	=,. 55.6

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Michigan

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	15,631	365	30,158	2,827	3,369	65,782	11,477	14,867	128,481	212					27,599			
1970	13,942	745	37,176	6,202	7,365	96,831	5,543	16,357	169,473	123					55,292			
1980	8,960	839	26,864	6,736	6,646	97,025	3,669	15,192	156,130	117					69,681			
1990	4,987	794	24,016	14,901	10,057	99,913	1,579	12,598	163,063	23					82,367			
2000	4,018	828	30,450	16,308	7,214	118,160	675	14,343	187,148	27					104,772			
2005 2006	3,170 3.141	783 694	29,943 29,627	23,157	3,431	119,584	1,110 970	12,545	189,770	29 32					110,445			
2006 2007	3,141	694	29,627 29.076	15,036 16,217	4,124 5,270	118,106 116.059	1,255	11,377 11.804	179,240 179.681	32 26					108,018 109,297			
2007	3,394	686	26,426	12,506	4,641	111,410	1,256	9,739	165,978	26					105,781			
2009	2,095	652	25,366	11,829	4,270	109,703	488	9,605	161,260	25					98,121			
2010	2,799	634	26,187	R 12,022	8,583	108,436	476	8,309	R 164,012	28					103,649			
2011	2,799	664	26,371	R 11,762	8,797	105,871	644	7,639	R 161,084	29					105,054			
2012	2,381	609	25,453	R 10,308	8,656	105,052	461	7,992	R 157,921	26					104,818			
2013	2,662	704	28,368	R 13,277	8,751	109,078	378	9,213	R 169,064	29					103,038			
2014	2,543	750	28,781	R 13,819	8,760	109,118	258	9,831	R 170,567	29					103,314			
2015	2,439	679	29,762	10,949	9,796	111,408	235	_ 10,182	_ 172,331	30					102,480			
2016	1,530	648	29,566	11,635	10,013	113,495	484	R 10,715	R 175,908	26					104,468			
2017	1,974	657	27,451	11,648	10,289	112,289	696	R_10,694	R 173,068	29					101,899			
2018	2,039	711	31,070	13,549	10,049	112,532	815	R 9,946	R 177,960	10					104,869			
2019	1,918	722	29,934	13,968	10,017	110,975	912	R 10,443	R 176,250	10					101,249			
2020	1,226	647	27,026	12,744	5,405	94,915	652	R 10,416	R 151,158	9					97,012			
2021 2022	1,753 1,741	647 709	R 27,293 27,862	12,417 12,636	6,833 7,710	103,742 102,060	833 854	R 10,921 10,989	H 162,039 162,111	11 10					99,813 100,639			
	<u> </u>		·						Trillion	Btu					· · · · · · · · · · · · · · · · · · ·			
1960	396.8	377.6	175.7	10.8	18.2	345.6	72.2	88.2	710.6	R <sub>0.7</sub>	37.3	NA	NA	NA	94.2	R 1,617.2	R 189.9	R 1,807.1
1970	341.8	756.0	216.6	23.7	41.0	508.7	34.8	97.2	921.9	R <sub>0.4</sub>	36.4	NA	NA	NA	188.7	R 2,245.3	R 386.4	R 2,631.7
1980	226.9	855.2	156.5	25.0	37.1	509.7	23.1	90.2	841.6	R <sub>0.4</sub>	90.6	NA	NA	NA	237.8	R 2,252.4	R 505.8	R 2,758.2
1990	124.5	829.7	139.9	54.5	56.6	524.8	9.9	76.8	862.6	R 0.1	71.2			0.2	281.0		R 697.7	R 2,853.9
2000	105.1	858.4	177.2	61.4	40.9	614.5	4.2	88.7	986.9	R 0.1	68.9			0.2	357.5		R 844.3	R 3,211.6
2005	81.2	794.9	174.2	86.4	19.5	620.9	7.0	78.6	986.5	R 0.1	69.9		2.2	0.3	376.8	R 2,315.0	R 889.0	R 3,203.9
2006	80.2	706.6	171.9	55.9	23.4	612.4	6.1	71.1	940.7	R 0.1 R 0.1	64.9 68.2		2.6	0.3	368.6	R 2,169.4 R 2,161.6	R 863.7 R 852.1	R 3,033.1 R 3,013.7
2007	79.8	689.4	168.2	60.4	29.9	596.8	7.9	72.9	936.1	R 0.1			3.0	0.4	372.9		R 801.6	R 2,905.8
2008 2009	87.6 53.4	702.7 665.7	152.7 146.5	47.6 44.9	26.3 24.2	568.9 558.4	7.9 3.1	59.9 59.5	863.3 836.7	R 0.1	72.1 58.5	12.7 11.8	3.5 4.3	0.4	360.9 334.8	R 2,104.2 R 1,965.7	R 713.9	R 2,679.6
2009	71.7	643.9	151.2	R 46.2	48.7	549.4	3.0	59.5 51.5	R 850.0	R 0.1	56.5 67.5		4.3	R 0.4	353.7	R 2,007.2	R 767.0	R 2.774.2
2010	71.7	672.8	152.2	R 45.2	49.9	536.0	4.1	47.2	R 834.4	R 0.1	78.1	15.1	5.1	R 0.5	358.4	R 2,035.2	R 775.3	R 2.810.5
2011	61.9	619.7	146.8	R 39.6	49.1	531.8	2.9	49.3	R 819.5	R 0.1	75.3		5.2	R 0.6	357.6		R 748.7	R 2.702.9
2013	69.3	718.7	163.5	R 51.0	49.6	551.9	2.4	56.0	R 874.5	R 0.1	81.1	14.9	5.2	R 0.6	351.6	R 2,115.8	R 726.9	R 2,842.8
2014	64.3	763.8	165.9	R 53.1	49.7	552.0	1.6	59.9	R 882.2	R 0.1	81.2		5.2	<sup>R</sup> 0.6	352.5	R 2,165.0	R 715.1	R 2,880.1
2015	62.3	701.1	171.5	42.1	55.5	563.4	1.5	62.4	896.3	R 0.1	R 98.2		5.2	R 0.6	349.7	R 2,128.5	R 664.3	R 2,792.8
2016	39.0	675.2	170.2	44.7	56.8	573.7	3.0	66.3	R 914.8	R 0.1	90.6		5.2	R 0.7	356.4	R 2,097.2	R 674.5	R 2,771.7
2017	53.5	687.3	158.0	44.7	58.3	567.4	4.4	R 66.3	R 899.2	R_0.1	85.2		5.2	R <sub>0.7</sub>	347.7	R 2,097.0	R 663.8	R 2,760.8
2018	53.7	744.9	178.9	52.0	57.0	568.7	5.1	R 61.9	R 923.7	R (s)	R 92.4		5.2	R 0.8	357.8	R 2,197.7	R 676.8	R 2,874.5
2019	50.0	763.4	172.4	53.7	56.8	560.6	5.7	R 64.8	R 914.0	R (s)	R 89.2		5.2	R 0.9	345.5	R 2,186.4	R 656.4	R 2,842.8
2020	31.5	R 686.5	155.6	49.0	30.6	479.5	4.1	R 64.8	R 783.5	R (s)	R 72.7	16.3	5.2	R 1.0	331.0	R 1,927.8	R 634.2	R 2,562.0
2021	45.5	R 685.0	R 157.3	47.7	38.7	523.9	5.2	H 67.7	R 840.6	R (s)	R 71.1		5.2	R 1.2	340.6	R 2,006.0	R 649.6	R 2,655.6
2022	47.1	750.5	160.6	48.5	43.7	515.3	5.4	68.0	841.6	(s)	75.9	17.4	5.2	1.3	343.4	2,082.0	625.6	2,707.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Michigan

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses <sup>i</sup>	Total e,h
1960	1,414	202	17,380	2,090	765	20,234				8,728			
1965 1970	1,007	271	16,334	2,528	1.279	20,141				11.309			
1970	481	340	16,334 18,839	4,842	1,279 545	20,141 24,226				11,309 17,103			
1975 1980 1985	119	335 387 341	19 420	5,625	302 83 425	25,347 12,915 11,389				20,886 22,260 22,302			
1980	65 56	387	9,195 6,192	3,637 4,771	83	12,915				22,260			
1985	56	341	6,192 4,842	4,771	425	11,389				22,302			
1990 1995	54 33	327 380	3,815	7,045 8,637	217	12,104 12,685				25,319 28,623 30,707 36,095 34,622			
2000	2	368	2 902	11,940	356	15 199				30,707			
2005 2006	12	359 316	1,945 1,504	15,437 9,483	219	17,601 11,140				36,095			
2006	1	316	1,504	9,483	153	11,140				34,622			
2007	17	328	1 371	10.916	217 233 356 219 153 95	12 383				35,366 34,297 32,854 34,681			
2008	0	342 327 304	1,208 909 673	10,215 9,925 9,139	49	11,472 10,904 9,876				34,297			
2009 2010	0	327	909	9,925	71 64	10,904				32,854			
2010	0	318	670	8,667	46	9,676				34,001			
2012	0	318 277	459	7 056	46 15	9,384 7,531				34,811 34,461			
2013 2014 2015	Ö	334 355 312	561 701 511	9,598 10,292 8,582	23 35 29	10,181 11,028 9,122				34,013			
2014	0	355	701	10,292	35	11,028				33,515			
2015	0	312	511	8,582	29	9,122				34,013 33,515 33,358 34,543 32,977			
2016	0	294 299 327	461	9,036	29 12	9,525 9,527				34,543			
2017 2018	0	299	433 478	9,082 11,109	12	9,527 11,599				32,977			
2019	0	332	533	11,109	12 19 19	11,833				35,131 33,496			
2020	ŏ	304	496	9,461	19	9,976				35,863			
2021	Ō	296	533 496 507	8,938	18	9,463				35,868			
2022	0	329	536	8,779	17	9,332				35,035			
							Trillion Btu						
1960 1965 1970 1975	35.0	209.0	101.2	8.0	4.3	113.6	22.1	NA	NA	29.8	409.5	R 60.0 R 75.9 R 119.5 R 161.5 R 161.6 R 154.6 R 214.5 R 208.8 R 247.5 R 290.5	R 469.5
1965	24.8	209.0 274.8	95.1	9.7	7.3	112 1	17.8	NA	NA	38.6	468.1	_R 75.9	R 544.0
1970	11.4	345.1 343.0	109.7	18.6	3.1 1.7	131.4 136.4	16.6 15.9	NA	NA	58.4 71.3	562.9	H 119.5	H 682.5
19/5	2.8	343.0	113.1	21.6	1./	136.4	15.9	NA	NA	/1.3	569.4 582.7	n 145.5	<sup>17</sup> /14.9
1980	1.6 1.4	394.9	53.6 36.1	14.0 18.3	0.5 2.4	68.0 56.8	42.3 43.9 27.5	NA NA	NA NA	76.0 76.1	582.7 525.6	" 161.6 R 154.6	744.3 R 680.2
1985 1990 1995	1.3	348.9 341.9	36.1 28.2	27.1	1.2	56.8 56.5 56.7	27.5	0.6	0.2	86.4	506.7	R 214.5	R 721 2
1995	0.8	395 4	22.2	33.2	1.3	56.7	14.8	0.7	0.3	86.4 97.7	506.7 557.3	R 208.8	R 766.2
2000	(s)	381.1	16.9	45.9	1.3 2.0	64.8	9.9	0.9	0.2	104.8	556.6	R 247.5	R 804.1
2005	0.3	364.0	11.3	59.3	12	71.9	25.4 22.5 24.9 27.9	1.8	0.3	123.2	586.7	R 290.5	R 877.2
2006 2007 2008	(s) 0.4	321.5 335.7 350.0	8.7 7.9 7.0	36.4 41.9 39.2	0.9 0.5 0.3	46.0 50.4 46.5	22.5	2.1 2.5 3.0	0.3 0.4	118.1	510.5	H 276.8	H 787.4
2007	0.4	335.7	7.9	41.9	0.5	50.4	24.9	2.5	0.4 0.4	120.7	535.0 544.8	H 2/5./	11810.7 B 004.7
2000	0.0	330.0	7.0 5.2	39.2 38.1	0.3	40.5 43.8	27.9 19.7	3.7	0.4	117.0	544.6 512.8	R 239.9	604.7 R 751 0
2009 2010	0.0	334.2 309.3	5.2 3.9	35.1	0.4	43.8 39.4	18.7 20.0	4.2	0.4	118.3	491.6	R 256 6	R 748 2
2011	0.0	322.4	3.9	33.3	0.3	37.4	19.4	4.0	0.5	118.8	502.5	R 256.9	R 759.4
2012	0.0	322.4 281.5 341.2	3.9 2.6 3.2	27.1	0.1	37.4 29.8	19.4 16.2	4.3	0.5 0.5	104.8 123.2 118.1 120.7 117.0 112.1 118.3 118.8 117.6	502.5 449.9 523.5	R 276.8 R 275.7 R 259.9 R 239.0 R 256.6 R 256.9 R 246.1 R 240.0	R 469.5 R 544.0 R 682.5 R 714.9 R 744.3 R 680.2 R 766.2 R 766.2 R 804.1 R 877.2 R 810.7 R 804.7 R 751.9 R 748.2 R 759.4 R 696.0 R 763.4
2013	0.0	341.2	3.2	36.9	0.1	40.2	21.2	4.3	0.5 R 0.5	116.1	523.5	R 240.0	R 763.4
2014	0.0	361.3	4 0	39.5	0.2	43.8	21.4	4.3	H 0.5	1111	545.7 R 514.8 R 497.0 R 497.5 R 549.0 R 554.3	H 232.0	H 777.7
2015	0.0	322.4	2.9	33.0	0.2 0.2	36.1	37.6	4.3	R 0.5 R 0.6	113.8	D 514.8	P 216.2	731.0 B 700.0
2016 2017	0.0 0.0	306.7 312.8	2.9 2.7 2.5	34.7 34.9	0.2 0.1	36.1 37.5 37.4	37.6 30.0 R 29.8	4.3 4.3	R 0.6	117.9 110 F	H 497.0	R 214 8	R 731.0 R 720.0 R 712.4 R 775.8 R 771.5
2017	0.0	342.5	2.5 2.8	34.9 42.7	0.1	37. <del>4</del> 45.5	36.3	4.3 4.3	H06	112.3	R 549 n	R 226 7	R 775 8
2018 2019	0.0	342.5 351.3	3.1	42.7 43.3	0.1	45.5 46.5	37.2	4.3	R 0.7	114.3	R 554.3	R 217.2	R 771.5
2020 2021	0.0	322.6 313.4	2.9	36.3		39.3	R 23.6	4.3 4.3	R 0.8 R 0.9	122.4	R 512.9 R 499.7	R 234.4	R 747.4
2021	0.0	313.4	2.9 2.9	36.3 34.3	0.1 0.1	39.3 37.4 36.9	36.3 37.2 R 23.6 R 21.3 26.6	4.3	R 0.9	113.8 117.9 112.5 119.9 114.3 122.4 122.4	R 499.7	R 216.2 R 223.0 R 214.8 R 226.7 R 217.2 R 234.4 R 233.4	R 747.4 R 733.1 753.9
2022	0.0	347.8	3.1	33.7	0.1	36.9	26.6	4.3	1.0	119.5	536.1	217.8	753.9

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Michigan

					Pet	roleum				Biomass						
,	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thous	and barrels	•		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	982	43	3,212	192	566	324	1,175	5,468	NA			NA	6,381			
1965	760	85	3.019	232	946	536	839	5,572	NA			NA	9,124			
1970 1975	378 279	133 182	3,482 3,589	444 516	403 224	804 954	558 390	5,691 5,672	NA NA			NA NA	13,021 14,596			
1980	243	190	3,123	333 438	15	823	225 274	4,519	NA			NA	16,765			
1985 1990	197 214	158 159	2,449 2.010	438 646	11 18	699 770	274 71	3,872 3,516	NA 0			NA 0	18,421 21,986			
1995	221	194	1,638	792	102	77	5	2,614	Ö			Ō	32,153			
2000 2005	12 141	187 175	1,577 1,267	1,095 933	33 28	159 207	5 4	2,868 2,440	0			0	36,793 39,600			
2006	8	154	1,337	915	26	91	2	2,370	Õ			Õ	39,299			
2007 2008	155 190	164 172	1,128 1,055	911 998	8 7	82 84	0 56	2,129 2,200	0			0	40,047 38,974			
2009	246	164	1,358	690	.8	127	12	2,195	Ö			1	37,870			
2010 2011	177 163	152 164	1,130 1,240	687 654	13 9	82 79	76 98	1,988 2,080	0			2 9	38,123 38,613			 
2012	90	145	1,172	751	3	78	47	2,052	ŏ			22	38,514			
2013 2014	73 68	172 186	1,337 1,161	943 929	7	81 3,199	1 4	2,369 5,303	0			24 26	37,698 37,349			==
2015	47	168	1,335	732	9	1,998	3	4,078	ő			27	38,441			
2016 2017	14 0	159 163	1,132 1,338	949 1,070	11	2,017 2,048	(s)	4,109 4,467	0			30 34	38,986 38,325			 
2018	Ö	180	1,071	1,148	10 5	2,081	7	4,313	0			45	38,925			
2019 2020	0	182 160	1,418 1,116	1,135	9 11	2,096 2,112	0	4,657 5,023	0			54 68	37,861 35,491			 
2021	Ö	161	1,138	1,785 1,957	8	2,134	3	5,239	Ő		==	79	36,861		==	
2022	0	179	1,187	1,830	7	2,192	3	5,220	0			93	37,114			
-									lion Btu							
1960 1965	24.3 18.7	44.5 86.0	18.7 17.6	0.7 0.9	3.2 5.4	1.7 2.8	7.4 5.3 3.5 2.4	31.7 31.9	NA NA	0.4 0.3	NA NA	NA NA	21.8 31.1	122.8 168.1	R 43.9 R 61.2	R 166.7 R 229.4
1970	9.0	134.7	20.3	1.7	2.3	4.2	3.5	32.0	NA	0.3	NA	NA	44.4	220.4	R 61.2 R 91.0	n 311 4
1975 1980	6.5 5.9	186.4 194.0	20.9 18.2	2.0 1.3	1.3 0.1	5.0 4.3	2.4 1.4	31.6 25.3	NA NA	0.3 1.0	NA NA	NA NA	49.8 57.2	274.6 283.5	R 101.7 R 121.7	R 376.3 R 405.2
1985	4.8	161.4	14.3	1.7	0.1	3.7	1.7	21.4	NA NA	1.0	NA	NA	62.9	250.9	R 127 7	H 378 6
1990 1995	5.3 5.4	166.5 201.9	11.7	2.5 3.0	0.1	4.0 0.4	0.4	18.8	0.0	7.3 9.0	0.0	0.0 0.0	75.0	269.2 335.2	R 186.2 R 234.6	R 455.4 R 569.8
2000	0.3	193.6	9.5 9.2	4.2	0.6 0.2	0.8	(s) (s)	13.6 14.4	0.0 0.0	8.6	0.1 0.2	0.0	109.7 125.5	340.1	H 296.5	H 636.6
2005 2006	3.4 0.2	177.2 156.7	7.4 7.8	3.6 3.5	0.2 0.1	1.1 0.5	(s) (s)	12.2 11.9	0.0 0.0	8.3 8.3	0.5 0.5	0.0 0.0	135.1 134.1	336.7 311.7	R 318.7 R 314.2	R 655.5 R 625.9
2007	3.8	167.4	6.5	3.5	(s)	0.4	0.0	10.5	0.0	8.7	0.5	0.0	136.6	327.5	R 2122	H 639.7
2008 2009	4.9 6.4	176.3 167.2	6.1 7.8	3.8 2.7	(s) (s)	0.4 0.6	0.4 0.1	10.8 11.3	0.0 0.0	9.1 7.3	0.6 0.7	0.0 (s)	133.0 129.2	334.5 322.1	R 295.3 R 275.5	R 629.8 R 597.6
2010	4.6	154.8	7.8 6.5	2.6	(S) 0.1	0.6	0.1	10.1	0.0	7.5	0.7	(s)	130.1	307.8	H 282 1	R 589.9
2011	4.1	165.8	7.2	2.5	0.1	0.4	0.6	10.7	0.0	7.5 7.8	1.1	R (s) R 0.1	131.7	321.0 B 222.7	R 285.0 R 275.1	R 605.9 R 574.8
2012 2013	2.1 1.7	147.1 175.1	6.8 7.7	2.9 3.6	(s) (s)	0.4 0.4	0.3 (s)	10.4 11.8	0.0 0.0	7.8 7.2	0.9 0.9	Ro1	131.4 128.6	R 299.7 R 325.4	H 266 0	H 591 3
2014	1.6	189.9	6.7	3.6	0.1	16.2	(s)	26.5	0.0	7.2 7.5 10.6	0.9	R 0.1 R 0.1	127.4	R 353.9 R 338.5	R 258.5 R 249.2	R 612.4 R 587.7
2015 2016	1.2 0.3	173.9 165.4	7.7 6.5	2.8 3.6	(s) 0.1	10.1 10.2	(s) (s)	20.7 20.4	0.0 0.0	10.6	0.9 0.9	H 0 1	131.2 133.0	R 331.4	R 251 7	R 583.1
2017	0.0	170.1	6.5 7.7	4.1	0.1	10.3	(s)	22.2	0.0	11.0	0.9	R 0.1 R 0.2	130.8	H 335 U	R 249.7 R 251.2	R 583.1 R 584.7 R 605.6
2018 2019	0.0 0.0	188.9 192.3	6.2 8.2	4.4 4.4	(s) 0.1	10.5 10.6	(s) 0.0	21.2 23.2	0.0 0.0	10.5 7.1	0.9 0.9	Rna	132.8 129.2	R 354.4 R 352.8	R 245 5	R 598.2
2020	0.0	170.2	6.4	6.9	0.1	10.7	0.0	24.0	0.0	6.3	0.9	R 0.2	121.1	R 322.7	R 232.0 R 239.9	R 554.7
2021 2022	0.0 0.0	170.9 189.7	6.6 6.8	7.5 7.0	(s) (s)	10.8 11.1	(s) (s)	24.9 25.0	0.0 0.0	5.8 5.9	0.9 0.9	R 0.3 0.3	125.8 126.6	R 328.5 348.3	239.9	R 568.4 579.0
					(-/		\-/									

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Michigan

Thousand   Section   Property						Petrol	eum				Bio	mass						
Thousand Ballion   Thousand barrels   Thousand ba		Coal			HGL <sup>b</sup>			Other d	Total	electric				Solar <sup>f,i</sup>	Electricity <sup>j</sup>			
1970 13.061 262 88 502 850 850 850 850 850 850 850 850 850 850	Year			1		Thousand	l barrels					and co-				End use <sup>f,k</sup>	energy	Total <sup>f,k</sup>
1970 13.061 262 88 502 850 850 850 850 850 850 850 850 850 850	1960	13.011	117	7.091	524	3.151	9.574	10.949	31.288	212				NA	12.482			
1975 9885 300 6749 1239 1889 3434 12239 27,460 121 NA 28,866	1965	15,193	192	7,518	923	2,694	6,660	13,665	31,460	146				NA	19,350			
1980   8.652   249			262				4,557											
1985 6,646 190 4,408 8,725 1,192 2,213 8,405 24,844 1177 NA 33,704	1980				2.637		3.213	13,129							30,656			
1995	1985	6,645	190	4,408	8,725	1,192	2,213	8,405	24,944	117				NA	33,704			
2000 4,004 247 4,065 3,006 1,060 622 12,07 20,961 27 0 37,268 0 20,007 20,007 22,007								10,635		23								
2006 3,017 222 3,475 6,279 2,237 999 18,913 23,816 29 0 34,745 0 24,745 0 24,745 0 24,745	2000	4,383	254 247	3,457 4,055	3,006		402 622	12 207	20,387	27 27				0	33,921			
2007 2,822 150 3,154 4,112 2,218 977 10,317 20,788 26 0 33,879 0 2000 2000 2,850 137 3,010 1988 1,442 342 8,37 14,234 25 (6) 27,301 1,2010 2,221 152 3,224 8,142 124 154 7,454 8,142 20 28 (6) 27,301 1,2010 2,221 152 3,224 8,142 1,254 154 7,454 8,142 20 28 (6) 23,879 1,254 1	2005	3,017	222	3,475	6,279	2,237	909	10,913	23,813	29				ŏ	34,745			
2008 3,2204 1499 3,415 1,003 1,881 982 8,334 1,577 26 0 32,505 0 20,000 1,000	2006	3,132	199			2,378	736	9,864	20,405					0	34,093			
2009   1,850   137   3,091   988   1,442   342   6,371   14,234   25       (8)   27,391	2007	2,922	156	3,154	4,112	2,218	967	10,317	20,768	26				0	33,879			
2010 2.621 152 3.224   R_2154 1.254 154 7.434   R14.220 28		3,204 1,850	149		1,003	1,883	982 342	8,394 8,371	10,077	26 25					32,505 27,391			
2011		2,621		3,224	R 2 154		154	7.434	H 1/1 220	28					30,841			
2018 2,588 179 3,322   12,687 1 385 188 8,435   15,986 29   1 31,322     1 20,447     1 20,447       20,447         20,447       20,447         20,447         20,447         20,447         20,447         20,447               -	2011	2.636	158	3,208	R 2,399		218	6,823	H 13 854					(s)	31,624			
2014	2012	2,291	167	2,825	R 2,466	1,316	188	7,274	H 14,069	26				(s)	31,836			
2016   2,391   178   3,803   1,561   1,559   72   9,332   16,327   30   1   30,677         2017   1,574   178   3,592   1,515   1,598   26   8,987   8,163   26       1   30,334         2017   1,574   178   3,590   1,317   1,612   18   8,987   8,165   10         1   30,531         1   20,234         1   20,234         1   20,234         1   20,234         1   20,234         1   20,234         1   20,234         1   20,234         1   20,234         20,234         20,234         20,234         20,234         20,234         20,234         20,234         20,234           20,234         20,2				3,322	R 2 547	959	73		R 15,966					1	31,322			
2016   1,516   178   3,912   1,561   1,598   26   8,9897   816,994   26       1   30,934           2017   1,574   176   3,500   1,317   1,612   18   8   9,974   816,822   29         1   30,991         2018   2,098   182   3,736   1,157   1,641   28   8   8,927   816,800   10         2   30,806           2018   2,098   182   3,736   1,157   1,641   28   8   8,927   816,800   10         2   30,806           2021   1,753   164   3,704   1,395   1,568   24   8,980   16,587   11         4   27,081           2021   1,753   164   3,704   1,395   1,568   24   8,990   8,16,587   11         5   28,486             1,741							72	9 332	16 327					i	30,677			
1971   1974   176   3.500   1.317   1.612   18   R. 1974   FI 16.422   29       1   30.591         1   20.291         1   20.291         1   20.291           20.202   1.216   159   3.226   1.385   1.632   26   R. 19.27   R. 16.203   10         3   22.5654         20.202   1.741   173   3.744   1.905   1.566   24   8.925   17.254   10         5   28.486           20.202   1.741   173   3.744   1.905   1.566   24   8.925   17.254   10         5   28.486             20.202   1.741   173   3.744   1.905   1.566   24   8.925   17.254   10         5   28.486             20.202   1.741   173   3.744   1.905   1.566   24   8.925   17.254   10         5   28.486           20.202   1.741   173   3.744   1.905   1.566   24   8.925   17.254   10         5   28.486             20.202   1.741   173   3.744   1.905   1.566   24   8.925   17.254   10         5   28.486           20.202   1.741   173   3.744   1.905   1.566   24   8.925   17.254   10         5   28.486           20.202   1.741   1.753   1.454	2016	1,516	178	3,912	1,561	1,598	26	H 9 897	R 16 994	26				1	30.934			
2019 1.918 179 3.737 1.410 1.626 24 P.9.743 P.16.180 10 3 29.886 2021 1.753 166 3.704 1.395 1.582 28 P.9.812 P.16.180 19 3 25.654 2021 1.753 166 3.704 1.395 1.582 28 P.9.812 P.16.180 19 5 26.486 2021 1.753 167 3.704 1.395 1.586 24 P.9.825 P.16.180 19 5 26.486 2021 1.753 167 3.704 1.395 1.586 24 P.9.825 P.16.180 19 5 26.486 1.2021 1.753 167 3.704 1.395 1.586 24 P.9.825 P.16.180 P.16		1,974					18	H 9,974	H 16 422					1	30,591			
1,726	2018	2,039	182 170	3,756	1,157	1,643	26	11 9,219 R 9 743	115,801 R 16.540	10				2	30,806			
1,753	2020					1.632	26	R 9.812	R 16.183					3	25,654			
1960   332.0   121.3   41.3   2.0   16.5   60.2   66.3   186.3   R.O.7   14.8   NA   NA   NA   42.6   R.G. 97.7   R.S. 9   R.783.6   1965   385.6   1965   43.8   3.5   14.2   41.9   80.4   185.7   R.J. 4   19.5   NA   NA   NA   NA   66.0   R.J. 98.9   R.J. 97.8   R.J. 98.9   R.J.	2021	1,753		3,704		1,568	24	R 9,900	H 16,587					4	27,081			
1960   332.0   121.3   41.3   2.0   16.5   60.2   66.3   186.3   R.0.7   14.8   NA   NA   NA   A   42.6   R.697.7   R.65.9   R.783.6   1965   385.6   195.1   43.8   3.5   14.2   41.9   80.4   183.7   R.0.5   18.8   NA   NA   NA   NA   66.0   R.697.7   R.65.9   R.783.6   1970   320.9   265.7   43.5   3.1   14.5   28.7   80.2   176.0   R.0.4   19.5   NA   NA   NA   NA   85.9   R.686.4   R.175.9   R.194.3   1975   246.7   307.7   51.0   4.4   9.9   21.0   74.1   160.4   R.0.4   19.7   NA   NA   NA   NA   98.5   R.686.4   R.175.9   R.194.3   1975   246.7   307.7   25.0   9.3   5.1   20.2   78.2   140.8   R.0.4   47.2   NA   NA   NA   NA   196.5   R.661.1   R.201.1   R.104.8   1980   219.4   253.7   28.0   9.3   5.1   20.2   78.2   140.8   R.0.4   47.2   NA   NA   NA   NA   115.0   R.660.9   R.233.7   R.994.5   1990   117.9   302.6   23.1   23.9   51.1   8.9   65.2   22.6   R.0.1   36.5   0.0   0.0   0.0   0.0   0.0   115.6   R.660.9   R.233.7   R.994.5   1995   109.2   264.4   20.1   16.7   6.8   2.5   70.9   117.1   R.0.1   44.7   0.0   0.0   0.0   0.0   115.7   R.64.4   R.247.5   R.992.9   2000   77.5   225.4   20.2   21.6   11.6   5.7   68.9   128.0   R.0.1   36.3   2.7   0.0   0.0   0.0   116.3   R.845.5   R.277.6   R.982.5   2005   77.5   225.4   20.2   21.6   11.6   5.7   68.9   128.0   R.0.1   36.3   2.7   0.0   0.0   0.0   116.3   R.845.5   R.277.7   R.865.2   2006   80.7   152.2   19.7   3.4   6.6   6.2   0.11.6   8.0   8.0   1.1   8.0   8.0   8.2   1.0   8.2   1.0   8.0   1.0   8.0   1.0   8.0   1.0   8.2   1.0   8.2   1.0   8.2   1.0   8.0   1.0   8.0   1.0   8.2   1	2022	1,741	173	3,744	1,905	1,656	24	9,925	17,254	10				5	28,486			
1965 385.6 195.1 43.8 3.5 14.2 41.9 80.4 183.7											u							
1970 320.9 265.7 49.5 3.1 14.5 28.7 80.2 176.0 H0.4 19.5 NA NA NA 85.9 H88.4 H75.9 H1.044.3 1975 246.7 307.7 51.0 4.4 9.9 21.0 74.1 160.4 H0.4 19.7 NA NA NA NA 98.5 H838.4 H75.9 H1.044.3 1980 219.4 253.7 28.0 9.3 5.1 20.2 78.2 140.8 H0.4 47.2 NA NA NA NA 115.0 H66.1 H222.5 H98.6 1995 116.9 194.2 25.7 28.8 6.3 13.9 51.1 126.8 H0.4 47.2 NA NA NA NA NA 115.0 H66.1 H222.5 H98.6 1990 117.9 302.6 23.1 23.9 5.1 8.9 65.2 126.2 H0.1 36.5 0.0 NA NA NA NA 115.0 H66.3 H23.7 H	1960	332.0	121.3	41.3	2.0				186.3	R 0.7				NA	42.6	R 697.7	R 85.9	R 783.6
1975	1965	385.6	195.1		3.5				183.7	B 0.5					66.0	H 849.6	H 129.9	R 979.5
1980 219.4 253.7 28.0 9.3 5.1 20.2 78.2 140.8 H0.4 47.2 NA NA NA 104.6 H766.1 H222.5 H988.6 1995 169.9 194.2 25.7 29.8 6.3 13.9 51.1 126.8 H0.4 55.3 0.0 NA NA NA 115.0 H660.9 H233.7 H894.5 1990 117.9 302.6 23.1 23.9 5.1 8.9 65.2 126.2 H0.1 36.5 0.0 0.0 0.0 0.0 119.6 H660.9 H233.7 H894.5 1995 109.2 264.4 20.1 16.7 6.8 2.5 70.9 117.1 H0.1 44.7 0.0 0.0 0.0 119.6 H663.4 R247.5 H892.9 2000 104.8 256.2 23.6 10.3 5.5 3.9 76.1 119.4 H0.1 50.4 0.0 0.0 0.0 115.7 H645.4 R247.5 H892.9 2005 77.5 225.4 20.2 21.6 11.6 5.7 68.9 128.0 H0.1 36.3 2.7 0.0 0.0 118.5 H588.5 H279.7 H886.2 2006 80.0 202.4 17.5 15.1 12.3 4.6 62.0 111.6 H0.1 34.1 4.5 0.0 0.0 111.3 H55.4 H588.5 H279.7 H886.2 2006 80.0 202.4 17.5 15.1 12.3 4.6 62.0 111.6 H0.1 13.7 H0.1 34.7 10.5 0.0 0.0 111.5 H588.5 H599.9 H264.1 H774.0 2008 82.7 152.2 19.7 3.4 9.6 6.2 51.8 90.7 H0.1 34.7 10.5 0.0 0.0 110.9 H484.5 H246.3 H793.8 2009 47.1 140.0 17.9 3.3 7.3 2.1 52.1 82.8 H0.1 32.5 11.8 0.0 (s) 93.5 H407.7 H199.3 H207.0 2010 67.1 154.1 140.0 17.9 3.3 7.3 2.1 52.1 82.8 H0.1 32.5 11.8 0.0 (s) 93.5 H407.7 H199.3 H207.2 2011 66.7 160.4 18.5 H9.2 6.1 1.4 42.3 H78.7 H0.1 51.2 15.0 0.0 (s) 107.9 H484.8 H233.4 H712.2 2012 59.8 170.0 16.3 H9.5 6.7 1.2 45.1 H78.7 H0.1 51.2 15.0 0.0 (s) 107.9 H484.8 H233.4 H712.2 2013 67.6 12.9 H9.1 H19.3 H9.3 H9.5 57.3 H9.8 H9.5 H9.2 61.1 1.4 42.3 H78.7 H0.1 51.2 14.4 0.0 (s) 108.6 H482.8 H223.4 H712.2 2013 67.6 12.9 H9.1 H9.0 (s) 108.6 H482.8 H223.4 H712.2 2013 67.6 12.9 H9.1 H9.0 (s) 108.6 H482.8 H223.4 H712.2 2014 62.7 191.3 H8.3 H9.5 6.7 1.2 45.1 H78.7 H0.1 51.2 15.0 0.0 (s) 106.9 H513.8 H221.0 H73.4 H9.9 H9.1 H9.0 (s) 106.9 H513.8 H221.0 H73.4 H9.9 H9.1 H9.9 H9.1 H9.0 (s) 106.9 H513.8 H221.0 H73.4 H9.9 H9.1 H9.1	1970	246.7	307.7		3.1 4.4		20.7	74.1		R 0.4						R 833 4	R 201 1	R 1,044.5
1990 117.9 302.6 23.1 23.9 5.1 8.9 65.2 126.2 R0.1 36.5 0.0 0.0 0.0 119.6 R696.3 R297.0 R393.3 1995 109.2 264.4 20.1 16.7 6.8 2.5 70.9 117.1 R0.1 44.7 0.0 0.0 0.0 0.0 115.7 R645.4 R247.5 R892.9 2000 104.8 256.2 23.6 10.3 5.5 3.9 76.1 119.4 R0.1 50.4 0.0 0.0 0.0 115.7 R645.4 R247.5 R892.9 2005 77.5 225.4 20.2 21.6 11.6 5.7 68.9 128.0 R0.1 36.3 2.7 0.0 0.0 127.2 R654.7 R300.3 R955.0 2006 80.0 202.4 17.5 15.1 12.3 4.6 62.0 111.6 R0.1 36.3 2.7 0.0 0.0 118.5 R588.5 R279.7 R865.2 2006 80.0 202.4 17.5 15.1 12.3 4.6 62.0 111.6 R0.1 34.1 4.5 0.0 0.0 116.3 R549.0 R272.6 R821.6 2007 75.6 159.7 R8.2 13.9 11.4 6.1 64.0 113.7 R0.1 34.7 10.5 0.0 0.0 116.3 R549.0 R272.6 R821.6 2008 82.7 152.2 19.7 3.4 9.6 62 51.8 90.7 R0.1 35.2 12.7 0.0 0.0 111.9 R484.5 R246.3 R734.0 2008 47.1 140.0 17.9 3.3 7.3 2.1 52.1 82.8 R0.1 32.5 11.8 0.0 (s) 93.5 R407.7 R199.3 R690.2 2010 67.1 154.1 18.6 R8.3 6.4 10.0 46.3 R80.5 R0.1 32.5 11.8 0.0 (s) 93.5 R407.7 R199.3 R690.5 2011 66.7 160.4 18.5 R9.2 6.1 1.4 42.3 R77.5 R0.1 51.2 15.0 0.0 (s) 105.2 R462.3 R233.4 R712.2 2012 59.8 170.0 16.3 R9.5 6.7 1.2 45.1 R8.8 R0.1 51.2 15.0 0.0 (s) 105.2 R462.3 R233.4 R712.2 2013 67.6 182.9 19.1 R10.3 7.0 0.9 51.4 R88.8 R0.1 52.7 14.9 0.0 (s) 10.9 R513.8 R231.4 R712.2 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R8.7 R0.1 52.2 14.9 0.0 (s) 106.9 R513.8 R221.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.2 14.9 0.0 (s) 106.9 R513.8 R221.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.2 14.9 0.0 (s) 106.9 R513.8 R221.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.2 R60.1 52.2 14.9 0.0 (s) 106.9 R513.8 R221.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.2 R60.1 52.2 14.9 0.0 (s) 106.9 R513.8 R221.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 R0.5 F5.3 R8.7 R0.1 52.3 15.0 0.0 (s) 106.9 R513.8 R221.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 R0.5 F5.3 R8.7 R0.1 52.3 15.0 0.0 (s) 106.9 R513.8 R221.0 R734.8 2014 62.7 191.3 18.3 R9.8 R0.5 R0.1 R0.1 R0.1 R0.1 R0.1 R0.1 R0.1 R0.1	1980	219.4	253.7	28.0	9.3	5.1	20.2	78.2	140.8	R 0.4	47.2	NA	NA	NA	104.6	<sup>rt</sup> 766.1	H 222.5	H 988.6
1995 1092 264.4 20.1 16.7 6.8 2.5 70.9 117.1 R0.1 44.7 0.0 0.0 0.0 115.7 R645.4 R247.5 R829.5 R929.0 104.8 255.2 23.6 10.3 5.5 3.9 76.1 119.4 R0.1 50.4 0.0 0.0 0.0 127.2 R654.7 R300.3 F895.0 2005 77.5 225.4 20.2 21.6 11.6 5.7 68.9 128.0 R0.1 36.3 2.7 0.0 0.0 118.5 R588.5 R279.7 R868.2 2006 80.0 202.4 17.5 15.1 12.3 4.6 62.0 111.6 R0.1 34.1 4.5 0.0 0.0 116.3 R549.0 R27.6 R821.6 2007 75.6 159.7 18.2 13.9 11.4 6.1 64.0 113.7 R0.1 34.7 10.5 0.0 0.0 116.3 R549.9 R264.1 R74.0 2008 82.7 152.2 19.7 3.4 9.6 6.2 51.8 90.7 R0.1 35.2 12.7 0.0 0.0 115.6 R509.9 R264.1 R74.0 2009 47.1 140.0 17.9 3.3 7.3 2.1 52.1 82.8 R0.1 32.5 11.8 0.0 (s) 130.5 R407.7 R199.3 R368.2 2010 67.1 154.1 18.6 R8.3 64 1.0 46.3 R80.5 R0.1 32.5 11.8 0.0 (s) 130.5 R407.7 R199.3 R281.0 2011 66.7 160.4 18.5 R9.2 61.1 4.4 42.3 R77.5 R0.1 51.2 15.0 0.0 (s) 105.2 R462.3 R238.4 R90.5 2012 59.8 170.0 16.3 R9.5 6.7 12.4 45.1 R78.7 R0.1 51.2 15.0 0.0 (s) 105.2 R482.8 R238.4 R90.5 2013 67.6 182.9 19.1 R10.3 7.0 0.9 51.4 R88.8 R0.1 52.7 14.9 0.0 (s) 108.6 R482.8 R27.4 R710.2 2013 67.6 182.9 19.1 R10.3 7.0 0.9 51.4 R88.8 R0.1 52.7 14.9 0.0 (s) 100.9 R53.8 R227.4 R710.2 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.7 14.9 0.0 (s) 100.9 R50.8 R227.4 R710.2 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.7 14.9 0.0 (s) 10.7 R50.8 R19.8 R227.4 R710.2 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.7 14.9 0.0 (s) 10.7 R50.8 R19.8 R19.8 R227.4 R710.2 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R8.7 R0.1 52.7 14.9 0.0 (s) 10.7 R50.8 R19.8 R19.8 R705.6 2015 61.1 184.3 21.9 R0.0 R19.5 F13.8 R29.5 R0.1 44.4 18.2 0.0 (s) 10.4 R50.8 R19.8 R19.8 R705.6 2015 53.5 R8.7 R0.1 52.7 R9.1 R9.3 R19.8 R19.								51.1		R 0.4						R 660.9	R 233.7	R 894.5
2000 104.8 256.2 23.6 10.3 5.5 3.9 76.1 119.4 R0.1 50.4 0.0 0.0 0.0 127.2 R654.7 R300.3 R955.0 2005 77.5 225.4 20.2 21.6 11.6 5.7 68.9 128.0 R0.1 36.3 2.7 0.0 0.0 118.5 R588.5 R279.7 R888.2 2006 80.0 202.4 17.5 15.1 12.3 4.6 62.0 111.6 R0.1 34.1 4.5 0.0 0.0 118.5 R588.5 R279.7 R888.2 2007 75.6 159.7 18.2 13.9 11.4 6.1 64.0 113.7 R0.1 34.7 10.5 0.0 0.0 116.6 R509.9 R264.1 R774.0 2008 82.7 152.2 19.7 3.4 9.6 6.2 51.8 90.7 R0.1 35.2 12.7 0.0 0.0 0.0 115.6 R509.9 R264.1 R774.0 2009 47.1 140.0 17.9 3.3 7.3 2.1 52.1 82.8 R0.1 35.2 12.7 0.0 0.0 0.0 110.9 R484.5 R246.3 R308.8 R0.1 35.2 11.8 0.0 (s) 93.5 R407.7 R199.3 R607.0 67.1 154.1 18.6 R8.3 6.4 1.0 46.3 R80.5 R0.1 40.0 15.1 0.0 (s) 105.2 R462.3 R282.2 R690.5 2011 66.7 160.4 18.5 R9.2 6.1 1.4 42.3 R77.5 R0.1 51.2 15.0 0.0 (s) 107.9 R478.8 R233.4 R712.2 2012 59.8 170.0 16.3 R9.5 6.7 1.2 45.1 R78.7 R0.1 51.2 14.4 0.0 (s) 108.6 R482.8 R227.4 R710.2 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R88.7 R0.1 51.2 14.4 0.0 (s) 108.6 R482.8 R227.4 R710.2 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R88.7 R0.1 52.7 14.9 0.0 (s) 106.9 R513.8 R224.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R88.7 R0.1 52.7 14.9 0.0 (s) 106.9 R513.8 R224.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R88.7 R0.1 52.7 14.9 0.0 (s) 106.9 R513.8 R224.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R88.7 R0.1 52.7 14.9 0.0 (s) 106.9 R513.8 R224.0 R734.8 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R88.7 R0.1 52.7 14.9 0.0 (s) 106.9 R513.8 R224.0 R735.8 R224.6 R224.6 R735.8 R224.6 R224.	1990	117.9	302.6				8.9	65.2	126.2	D 0.1		0.0	0.0		119.6	n 696.3	P 297.0	n 993.3 B eee o
2005 77.5 225.4 20.2 21.6 11.6 5.7 68.9 128.0										B o 1						R 654 7	Ranna	R 955 0
2006 80.0 202.4 17.5 15.1 12.3 4.6 62.0 111.6 9.01 34.1 4.5 0.0 0.0 116.3 9549.0 9726.6 9821.6 9207 75.6 159.7 18.2 13.9 11.4 6.1 64.0 113.7 9.01 34.7 10.5 0.0 0.0 115.6 9509.9 9.264.1 9774.0 2008 82.7 152.2 19.7 3.4 9.6 6.2 51.8 90.7 90.1 35.2 12.7 0.0 0.0 110.9 9.494.5 92.4 92.0 9.0 47.1 140.0 17.9 3.3 7.3 2.1 52.1 82.8 90.7 80.1 35.2 12.7 0.0 0.0 110.9 9.494.5 92.3 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	2005	77.5	225.4	20.2	21.6	11.6	5.7	68.9	128.0	R 0.1	36.3	2.7	0.0	0.0	118.5	H 588.5	R 279.7	H 868.2
2008 82.7 152.2 19.7 3.4 9.6 6.2 51.8 90.7 H0.1 35.2 12.7 0.0 0.0 110.9 H484.5 H246.3 H730.8 H730.8 H730.9 47.1 140.0 17.9 3.3 7.3 7.3 2.1 52.1 82.8 R0.1 32.5 11.8 0.0 (s) 93.5 R407.7 R193.3 H730.8										<sup>rt</sup> 0.1						H 549.0	H 272.6	H 821.6
2009 47.1 140.0 17.9 3.3 7.3 2.1 52.1 82.8 80.1 32.5 11.8 0.0 (s) 93.5 8407.7 8193.3 8607.0 2010 67.1 154.1 18.6 843.6 4.4 1.0 46.3 880.5 80.1 40.0 15.1 0.0 (s) 105.2 8462.3 823.2 8690.5 2011 66.7 160.4 18.5 89.2 6.1 1.4 42.3 877.5 80.1 51.2 15.0 0.0 (s) 107.9 478.8 8233.4 8712.2 2012 59.8 170.0 16.3 89.5 6.7 1.2 45.1 878.7 80.1 51.2 14.4 0.0 (s) 108.6 8482.8 8227.4 8710.2 2013 67.6 182.9 19.1 810.3 7.0 0.9 51.4 88.8 80.1 52.7 14.9 0.0 (s) 108.6 8482.8 8227.4 8710.2 2014 62.7 191.3 18.3 89.8 4.9 0.5 55.3 88.7 80.1 52.7 14.9 0.0 (s) 106.9 8513.8 8221.0 8732.8 2014 62.7 191.3 18.3 89.8 4.9 0.5 55.3 88.7 80.1 52.3 15.0 0.0 (s) 110.7 8520.8 824.6 8745.4 2015 61.1 184.3 21.9 6.0 7.9 0.5 57.3 93.6 80.1 50.1 15.0 0.0 (s) 104.7 8508.8 8198.8 870.6 2016 38.7 186.1 22.5 6.0 8.1 0.2 861.5 98.2 80.1 49.4 18.2 0.0 (s) 105.5 8493.2 8199.7 8692.9 2017 53.5 184.3 20.2 5.1 8.1 0.1 862.1 895.5 80.1 44.4 18.2 0.0 (s) 104.4 8500.3 8199.7 8692.9 2017 53.5 184.3 20.2 5.1 8.1 0.1 862.1 895.5 80.1 44.4 18.2 0.0 (s) 104.4 8500.3 8199.3 8096.6 2019 50.0 189.5 21.5 5.4 8.2 0.2 860.7 896.0 8(s) 44.9 18.1 0.0 (s) 105.0 875.5 8441.2 8193.8 8096.3 2020 31.5 868.9 191. 53 8.2 0.2 860.7 896.0 8(s) 44.9 18.1 0.0 (s) 875.5 8441.2 8167.7 8684.9 2021 45.5 8173.3 21.4 5.3 7.9 0.1 861.9 896.6 8(s) 44.9 18.1 0.0 (s) 92.4 868.7 8176.2 864.9		75.6								D 0.1		10.5				n 509.9	P 264.1	n 774.0
2010 67.1 154.1 18.6 R8.3 6.4 1.0 46.3 R80.5 R0.1 40.0 15.1 0.0 (s) 105.2 R462.3 R282.2 R690.5 2011 66.7 160.4 18.5 R9.2 6.1 1.4 42.3 R77.5 R0.1 51.2 15.0 0.0 (s) 107.9 R478.8 R23.4 R712.2 2012 59.8 170.0 16.3 R9.5 6.7 1.2 45.1 R78.7 R0.1 51.2 15.0 0.0 (s) 108.6 R482.8 R227.4 R710.2 2013 67.6 182.9 19.1 R10.3 7.0 0.9 51.4 R88.8 R0.1 52.7 14.9 0.0 (s) 106.9 R513.8 R221.0 R734.4 2014 62.7 191.3 18.3 R9.8 4.9 0.5 55.3 R88.7 R0.1 52.3 15.0 0.0 (s) 106.9 R513.8 R224.6 R745.4 2015 61.1 184.3 21.9 6.0 7.9 0.5 57.3 93.6 R0.1 50.1 15.0 0.0 (s) 104.7 R508.8 R198.8 R707.6 R0.1 53.5 184.3 20.2 51.8 R1 0.2 R615.9 R9.2 R0.1 49.3 15.2 0.0 (s) 105.5 R493.2 R199.7 R692.9 2017 53.5 184.3 20.2 51.8 R1 0.1 R62.1 R95.5 R0.1 44.4 18.2 0.0 (s) 104.4 R500.3 R199.3 R699.6 2019 50.0 189.5 21.5 54.8 2.0 0.2 R60.7 R96.0 R60.7 R96.0 R61.1 R62.1 R95.5 R0.1 44.4 18.2 0.0 (s) 105.1 R500.6 R193.8 R0.4 R98.8 R70.6 R0.1 S0.0 R189.5 21.5 54.8 2.0 0.2 R60.7 R96.0 R61.1 R61.1 R62.1 R95.5 R0.1 R61.1 0.0 (s) 105.1 R500.6 R193.8 R0.4 R0.5 R0.5 R0.1 R0.5 R0.5 R0.5 R0.1 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	2008	62.7 47 1	132.2	17.7	3.4	7.3			90.7 82.8	R 0.1	32.2		0.0		93.5	R 407 7	R 199 3	R 607.0
2011 66.7 160.4 18.5	2010	67.1	154.1	18.6	R 8.3	6.4	1.0	46.3	R 80.5	R 0.1	40.0	15.1	0.0	(s)	105.2	R 462.3	R 228.2	R 690.5
2013 67.6 182.9 19.1 19.0 7.0 0.9 51.4 188.8 10.1 52.7 14.9 0.0 (s) 106.9 151.8 121.0 1734.8 2014 62.7 191.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 1					R 9.2		1.4	42.3	R 77.5	R 0.1				(s)		R 478 8	R 233.4	R 712.2
2014 62.7 191.3 18.3 19.8 4.9 0.5 55.3 188.7 10.1 52.3 15.0 0.0 (s) 110.7 1520.8 124.6 1745.4 120.5 61.1 184.3 21.9 6.0 7.9 0.5 57.3 93.6 12.1 15.0 0.0 (s) 104.7 1550.8 194.8 1707.6 12016 38.7 186.1 22.5 6.0 8.1 0.2 161.5 18.1 0.2 161.5 18.2 10.1 15.0 0.0 (s) 105.5 184.3 20.2 18.1 10.1 1862.1 189.5 180.1 180.2 180.1 180.2 180.1 180.2 180.1 180.2 180.1 180.2 180.1 180.2 180.1 180.2 180.1 180.1 180.2 180.1	2012				H 9.5	6.7	1.2	45.1	R 78.7	B 0.1	51.2				108.6	H 482.8	R 227.4	R 710.2
2015 61.1 184.3 21.9 6.0 7.9 0.5 57.3 93.6 10.1 15.0 0.0 (s) 104.7 1508.8 1198.8 1707.6 12016 38.7 186.1 22.5 6.0 8.1 0.2 161.5 98.2 10.1 49.3 15.2 0.0 (s) 105.5 1493.2 199.7 1692.9 2017 53.5 184.3 20.2 5.1 8.1 0.1 162.1 195.5 10.1 44.4 18.2 0.0 (s) 104.4 1650.3 1199.3 1699.6 12018 53.7 191.0 21.6 4.4 8.3 0.2 15.7 19.1 0.0 (s) 105.1 1500.8 199.8 1705.6 12019 50.0 189.5 21.5 5.4 8.2 0.2 160.7 160.7 160.0 160.0 160.0 (s) 102.0 1650.6 193.8 1694.3 1202 13.5 168.9 19.1 5.3 8.2 0.2 161.2 161.9 161.	2013		102.9		10.3 R g g			51.4 55.3	R 88.7	R 0.1	52.7 52.3	14.9	0.0			R 520.8	R 224.6	R 7/15 /
2016 38.7 186.1 22.5 6.0 8.1 0.2 R61.5 98.2 R0.1 49.3 15.2 0.0 (s) 105.5 R493.2 R199.7 R692.9 2017 53.5 184.3 20.2 5.1 8.1 0.1 R62.1 R95.5 R0.1 44.4 18.2 0.0 (s) 104.4 R500.3 R199.3 R699.6 2018 53.7 191.0 21.6 4.4 8.3 0.2 R57.6 R92.1 R(s) 45.7 19.1 0.0 (s) 105.1 R506.8 R198.8 R705.6 2019 50.0 189.5 21.5 5.4 8.2 0.2 R60.7 R96.0 R(s) 44.9 18.1 0.0 (s) 102.0 R500.6 R193.8 R694.3 2020 31.5 R168.9 19.1 5.3 8.2 0.2 R61.2 R94.1 R(s) 42.9 16.3 0.0 (s) 87.5 R441.2 R167.7 R608.9 2021 45.5 R173.3 21.4 5.3 7.9 0.1 R61.9 R96.6 R(s) 44.0 16.9 0.0 (s) 92.4 R468.7 R176.2 R644.9		61.1	184.3	21.9	6.0		0.5	57.3	93.6	R 0.1	50.1	15.0	0.0	(s)	104.7	H 508.8	R 198.8	H 707.6
2018 53.7 191.0 21.6 4.4 8.3 0.2 R57.6 R92.1 R(s) 45.7 19.1 0.0 (s) 105.1 R506.8 R198.8 R705.6 2019 50.0 189.5 21.5 5.4 8.2 0.2 R60.7 R96.0 R(s) 44.9 18.1 0.0 (s) 102.0 R500.6 R193.8 R694.3 2020 31.5 R168.9 19.1 5.3 8.2 0.2 R61.2 R94.1 R(s) 42.9 16.3 0.0 (s) 87.5 R441.2 R163.7 R608.9 2021 45.5 R173.3 21.4 5.3 7.9 0.1 R61.9 R96.6 R(s) 44.0 16.9 0.0 (s) 92.4 R468.7 R176.2 R644.9	2016	38.7	186.1	22.5	6.0	8.1	0.2	R 61.5	98.2	R 0.1	49.3	15.2	0.0	(s)	105.5	R 493.2	R 199.7	R 692.9
2019 50.0 189.5 21.5 5.4 8.2 0.2 160.7 196.0 1(s) 44.9 18.1 0.0 (s) 102.0 500.6 193.8 1694.3 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10		53.5						<sup>H</sup> 62.1	H 95.5	H 0.1	44.4			(s)		H 500.3	H 199.3	<sup>n</sup> 699.6
2020 31.5 R 168.9 19.1 5.3 8.2 0.2 R 61.2 R 94.1 R (s) 42.9 16.3 0.0 (s) 87.5 R 441.2 R 167.7 R 608.9 2021 45.5 R 173.3 21.4 5.3 7.9 0.1 R 61.9 R 96.6 R (s) 44.0 16.9 0.0 (s) 92.4 R 468.7 R 176.2 R 644.9			189.5					R 60.7	Rasn							R 500 6	198.8 R 103.8	
2021 45.5 1173.3 21.4 5.3 7.9 0.1 116.9 1196.6 11(s) 44.0 16.9 0.0 (s) 92.4 11468.7 1176.2 11644.9	2020	31.5	R 168.9	19.1	5.3	8.2	0.2	R 61 2	R 94.1	B )_(	40.0	16.3	0.0		87.5	R 441 2	R 167.7	R 608.9
2022 47.1 182.5 21.6 7.3 8.4 0.2 62.0 99.4 (s) 43.4 17.4 0.0 (s) 97.2 486.9 177.1 664.0	2021	45.5	R 173.3	21.4	5.3	7.9	0.1	R 61.9	н 96.6	'' (S)	44.0	16.9	0.0	(s)	92.4	H 468.7	H 176.2	R 644.9
	2022	47.1	182.5	21.6	7.3	8.4	0.2	62.0	99.4	(s)	43.4	17.4	0.0	(s)	97.2	486.9	177.1	664.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Michigan

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	223 50 21	3	1,312	2,475 3,348 6,353	21	3,369	1,277	62,307	728	71,489	9			
1965 1970	50	5 10	2,619 718	3,348	21 34 62 95 128	4,377 7,365	1,126 1,324	74,814 93,269	779 427	87,097 109,518	0			
1970	21	10	347	8,949	95	5,700	1,324	105 412	427	109,516	0			
1975 1980	2 0	12	347 488	8,949 9,741	128	6,646	1,321 1,477	105,412 95,235	423 232	122,248 113,946	ŏ			
1985	0	11	201	12.328	291	6,570	1.344	91.556	99	112,389 123,533	0			
1990 1995	0	18 25	215 231	13,207 18,125	283 241	10,057 8,818	1,513 1,443	98,167 109,159	92 94	123,533 138,111	0			
2000	0	27	205	21.915	266	7.214	1 542	116 941	48	148.131	4			
2005	Ö	27 28	205 84 67	21,915 23,256	509	7,214 3,431	1,300	117,139	48 197	148,131 145,916	5			
2006	0	26	67	23,767	231	4,124	1,267	115,637	232	145,325	4			
2007 2008	0	26 24	76 74	23,422	278 289	5,270 4,641	1,308 1,215	113,760 109,444	288 218	144,401	5			
2009	0	24 24	74 62	20,749 20,008	289 227	4,641 4,270	1,092	108.134	218 134	136,629 133,927	5			
2010	0	25	118	21,161 21,252	42	8,583 8,797	680	107,099 104,587	246	137,928 135,766	5			
2011	0	24 21	111 102	21,252 20,997	42 34	8,797	650 597	104,587	328 225	135,766 134,269	5			
2012 2013	0	19	92	20,997	34 48	8,656 8,751	597 656	103,658 107,612	240	134,269	6			
2014	ŏ	21	92 66	23,149 23,746	48 51	8,751 8,760	656 665	104,960	181	140,548 138,428	4			
2015	0	20	74	24.111	73	9.796	738 R 705 R 624	107,851	160	142 804	4			
2016 2017	0	16 19	74 75	24,061 22,179	89 180	10,013	n 705	109,880 108,630	458 677	R 145,279 R 142,653	4			
2017	0	22	75 84	25,764	134	10,289 10,049	626	108,808	781	_ 146,246	0 7			
2019	ŏ	29	84 88 76	24.246	143	10,017	626 R 584	107,253	888	R 143,219 R 119,977	6			
2020	0	23	76	22,089	113	5,405	H 497	91,171	625	R 119,977	4			
2021 2022	0	26 29	89 92	R 21,944 22,394	132 122	6,833 7,710	R 525 552	100,040 98,212	806 826	R 130,750 130,305	3			
				22,00	1.22	7,7.10		illion Btu	020	100,000	•			
1960	5.5	2.7	6.6	14.4	0.1	18.2	7.7	327.3	4.6	378.9	(s)	387.2	0.1	387.3
1965	5.5 1.2 0.5	4.6 10.5	13.2	19.5 37.0	0.1	24.0	6.8 8.0 8.0	393.0 489.9	4.9	461.5	(s) 0.0	467.4	0.0	467.4
1970 1975	0.5	10.5	3.6	37.0	0.2	41.0	8.0	489.9	2.7	582.5 650.3	0.0	593.5	0.0	593.5
1975	(s) 0.0	10.5 12.6	1.7 2.5	52.1 56.7	0.4 0.5	31.6 37.1	8.0 9.0	553.7 500.3	2.7 1.5	607.5	0.0 0.0	660.8 620.1	0.0 0.0	660.8 620.1
1980 1985	0.0	10.8	2.5 1.0	56.7 71.8	1.1	36.7	8.2	480.9	0.6	600.4	0.0	614.7	0.0	614.7
1990	0.0	18.7	1.1	76.9	1.1	56.6	9.2	515.7	0.6	661.1	0.0	683.9	0.0	683.9
1995 2000	0.0 0.0	25.9 27.5	1.2 1.0	105.5 127.5	0.9 1.0	50.0 40.9	8.8 9.3	568.1 608.2	0.6 0.3	735.0 788.3	(s) (s)	760.9 815.9	(s) (s)	761.0 815.9
2005	0.0	28.3	0.4	135.3	2.0	19.5	7.9	608.2	1.2	774.4	(S)	803.0	(s)	803.0
2006	0.0	26.1	0.3	137.9	0.9	23.4	7.7	599 6	1.5	771.3	(s) (s)	798.2	(s) (s)	798.2
2007	0.0	26.6	0.4	135.5 119.9	1.1	29.9	7.9 7.7 7.9 7.4	585.0	1.8	761.5	(s) (s)	789.2	(s)	789.3
2008	0.0	24.2 24.2	0.4	115.6	1.1	26.3	7.4 6.6	558.8 550.4	1.4 0.8	715.3 698.9	(S)	740.5 723.1	(s)	740.5 723.1
2009 2010	0.0 0.0	25.6	0.3 0.6	122.2	0.9 0.2	24.2 48.7	6.6 4.1	550.4 542.7	1.5	698.9 720.0	(s) (s)	723.1 745.6	(s) (s)	723.1 745.6
2011	0.0	24.2	0.6	122.6	0.2	49.9	3.9	529.5	2.1	708 7	(s)	733.0	(s) R (s)	733.0
2012	0.0	21.2	0.5 0.5	121.1 133.4	0.1	49.1	3.6	524.7 544.5	1.4	700.6 733.7	(s) (s)	721.8	H (s)	721.8
2013 2014	0.0 0.0	19.5 21.4	0.5	133.4 136.8	0.2 0.2	49.6 49.7	4.0 4.0	531.0	1.5 1.1	733.7 723.2	(S)	753.2 744.6	(s)	753.2 744.6
2015	0.0	20.5	0.3 0.4	138.9	0.2 0.3 0.3	55.5 56.8	4.5	545.4 555.4	1.0	723.2 746.0	(s) (s)	766.5	(s) (s)	766.5 775.6
2016	0.0	17.0	0.4	138.5	0.3	56.8	4.3	555.4	2.9	758.6	(s)	775.6	(s)	775.6
2017	0.0	20.1 22.6	0.4 0.4	127.7 148.4	0.7 0.5	58.3 57.0	3.8 3.8	548.9 549.9	4.3 4.9	744.0 764.9	(s) (s)	764.2 787.5	(s)	764.2 787.6
2018 2019	0.0 0.0	22.6 30.3	0.4	148.4 139.6	0.5	57.0 56.8	3.8	549.9 541.8	4.9 5.6	764.9 748.4	(S) (S)	778 7	(s) (s)	778.8
2020	0.0	30.3 R 24.8	0.4	127.1	0.4	30.6	3.0	460.6	3.9	R 626.2	(s)	R 651.0	(s)	H 651.0
2021 2022	0.0 0.0	R 27.5 30.4	0.5 0.5	127.1 R 126.5 129.1	0.5 0.5	38.7	R 3.2 3.3	505.2	5.1 5.2	748.4 R 626.2 R 681.7 680.3	(s)	R 709.2 710.7	(s) (s)	<sup>H</sup> 709.2
2022	0.0	30.4	0.5	129.1	0.5	43.7	3.3	495.9	5.2	680.3	(s)	710.7	(s)	710.8

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Michigan

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	10,300	5	77	0	362	440	0	1,817		0	NA	NA	1,250	
1965 1970	16,123 20,124	3 64	68 965	0	316 4,514	384	181 375	1,667 1,581		0	NA	NA	-413 -400	
1970 1975	20,124 20,914	64 57	965 1 538	0	1/1136	5,479 15,674	7,176	1,581 989		0	NA NA	NA NA	-400 320	
1980	22,150	26	1,538 780 646	ő	9,621 522	10,400	15,891	1,083 881		ŏ	ŇÄ	NA	5.685	
1985	25,896	10	646	0	522	1,168	13,452	881		0	0	0	391	
1990	29,830 31,400	85 123 135	341 410	0	1,149 1,101	1,490 1,512	21,611 24,448	1,605 1,570		0	0	0	-10,918 5.760	 
1995 2000	33,277	135	374	9	1,683	2,066	18,882	1,401		0	0	0	5,760 -327	
2005	36.273	131	372	170	1 099	1,641	32.872	1.433		Ö	Ö	2	-2.730	
2006 2007	34,926 36,574	109 124	302 295	218 252	231 529	751 1,076	29,066 31,517	1,488 1,244		0	0	2	-2,117 -1,206	
2007	36,476	93	295 287	232 236	214	738	31 484	1,244		0	0	141	-1,206 2,305	
2009 2010	35,330	93 84 113	287 257 255	236 234 220	127	738 618 593	21,851 29,625	1,339 1,347 1,222		ŏ	ŏ	300 360	2,305 5,637 3,564	
2010	34,976	113	255	220	117	593	29,625	1,222		0	0	360	3,564	
2011 2012	32,335 29,669	113 181	321 223 223	165 178	44 50	530 451	32,889 28,020	1,328 1,181		0	0	456 1,132	4,069 4,270	
2013	31,653	111	223	624	28	875	28,921	1,390		0	0	2,800	5,818	
2014	29.401	112	261	1.862	16	2.139	31,246	1.571		0	0	3.868	5.844	
2015	29,487	166	195 214	1,473	21	1,688	29,334	1,469		0	1	4,797	8,291	
2016 2017	23,126 24,058	243 213	179	1,421 2,278	28 37	1,662 2,493	31,552 32,381	1,539 1,650		0	63	4,696 5,191	7,807 5,705	
2018	24,238	213 254 276	211 163	2,565 1,751	17	2,793 1,929	32,381 30,479	1,559 1,640		ŏ	116	5,457 5,826	6,487 2,645	
2019	21,278	276	163	1,751	15	1,929	32,909	1,640		0	142	5,826	2,645	
2020 2021	15,919 20,719	301 252	172 252	1,812 2,259	18 22	2,002 2,533	30,333 34,338	1,704 1,329		0	154 424	6,735 7,697	1,707 2,188	
2022	19,861	320	187	3,443	14	3,644	26,013	1,376		ŏ	859	9,151	1,745	
							Trillion Btu							
1960 1965	256.3 399.9	5.4	0.5 0.4 5.6 8.9 4.5 3.8	0.0	2.3 2.0	2.7	0.0	R 6.2 R 5.7 R 5.4 R 3.4	0.0	0.0	NA	NA	4.3 -1.4	R 274.9
1965	399.9 487.0	3.0 65.2	0.4	0.0 0.0	2.0 28.4	2.4 34.0	2.1 4.1	" 5.7 R 5.4	0.0 0.0	0.0 0.0	NA NA	NA NA	-1.4 -1.4	R 411.7 R 504 4
1975	494.9 532.2	47.3	8.9	0.0	88.9	97.8	79.0	R 3.4	0.0	0.0	NA NA	NA NA	1.1	R 594.4 R 723.5 R 813.0
1980	532.2	19.4	4.5	0.0	60.5	65.0	173.3	R 3.7 R 3.0 R 5.5 R 5.4 R 4.8	0.0	0.0	NA	NA	19.4	R 813.0
1985	605.8	4.7	3.8	0.0 0.0	3.3	7.0	142.9	n 3.0	0.0	0.0 0.0	0.0	0.0	1.3	R 764.7
1990 1995	663.5 671.2	69.1 105.1	2.0 2.4	0.0	7.2 6.9	9.2 9.3	228.7 256.9	R 5.4	9.0 19.7	0.0	0.0 0.0	0.0 0.0	-37.3 19.7	R 1.084.8
2000	694.7 718.2	126.0	2.2	0.1	10.6	12.8	196.9	R 4.8	25.6	0.0	0.0	0.0	-11	R 1,058.0
2005 2006	718.2 693.4	132.6 110.4	2.2 2.2 1.8	1.0 1.2	6.9 1.5	10.0 4.5	343.0 303.3	H 4.9	23.2 23.2	0.0 0.0	0.0 0.0	(s) (s)	-9.3 -7.2	H 1,222.7
2006	721.3	110.4	1.0	1.4	3.3	4.5 6.5	330.6	R 4.9 R 5.1 R 4.2 R 4.6	23.2 22.1	0.0	0.0	(S)	-7.2 -4.1	R 1 206 1
2007 2008	721.3 712.4	125.5 94.8 85.1	1.7 1.7 1.5 1.5 1.9	1.4	3.3 1.3	6.5 4.4	329.1	R 4.6	22.1 22.7 22.0	0.0	0.0	(s) R 0.5 R 1.0 R 1.2	-4.1 7.9 19.2 12.2	R 1,176.3
2009	682.5	85.1	1.5	1.3	0.8	3.6	228.5	n 4 6	22.0	0.0	0.0	R 1.0	19.2	R 1,046.6
2010 2011	677.6 620.4	114.8 114.5	1.5	1.3 0.9	0.7 0.3	3.5 3.1	309.6 344.2	R 4.2 R 4.5	21.9 22.9	0.0 0.0	0.0 0.0	P 1.2 P 1.6	12.2 13.9	n 1,145.0 R 1 125.0
2012	559.7	184.4	1.3	1.0	0.3	2.6	293.6	R 4.0	22.3	0.0	0.0	R 3.9	14.6	R 1.085.2
2013 2014	559.7 588.9 554.2 555.0	113.0	1.3 1.3 1.5 1.1	3.6	0.2	5.0	302.2	R 4.0 R 4.7 R 5.4 R 5.0	23.2 24.7 21.2	0.0	0.0	R 3.9 R 9.6	19.9	R 946.2 R 1,084.8 R 1,058.0 R 1,222.7 R 1,132.6 R 1,206.1 R 1,176.3 R 1,046.6 R 1,145.0 R 1,125.0 R 1,085.2 R 1,066.5 R 1,070.7 R 1,113.1 R 1,093.1 R 1,093.1 R 1,093.1 R 1,093.1 R 1,093.1 R 1,093.1 R 1,093.1 R 1,093.1 R 1,085.2
2014	554.2	114.3 170.7	1.5	10.7 8.4	0.1	12.3 9.7	326.8	H 5.4	24.7	0.0	0.0	R 13.2 R 16.4	19.9 28.3	H 1,070.7
2015 2016	432.2	251.6	1.1	8.4 8.1	0.1 0.2	9.7	306.8 330.0	1.5.0 R 5.3	21.2	0.0 0.0	R (S)	R 16.0	∠o.3 26.6	R 1 093 1
2017	446.0	220.9	1.0	13.0	0.2	14.3	338.7	R 5.3 R 5.6 R 5.3	22.7	0.0	(s) R (s) R 0.2	R 16.0 R 17.7	26.6 19.5	B 1,085.6
2018	452.4	266.0	1.2	14.7	0.1	16.0	318.7	R 5.3	22.5	0.0	H04	H 18 6	22.1	R 1,122.0
2019 2020	397.8 303.0	291.6 317.7	0.9 1.0	10.0 10.4	0.1 0.1	11.0 11.5	343.6 _ 316.9	R 5.6 R 5.8	21.9 20.1	0.0 0.0	R 0.5 R 0.5	R 19.9 R 23.0	9.0 5.8	R 1,101.0 R 1,004.2
2020	390.7	265.4	1.5	12.9	0.1	14.5	H 358.1	R 4.5 4.7	22.6	0.0	H 1.4	R 26.3	7.5	H 1.091.0
2022	376.4	265.4 337.7	1.5 1.1	19.7	0.1 0.1	20.9	271.3	4.7	22.1	0.0	2.9	R 26.3 31.2	7.5 6.0	1,073.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Minnesota

						Petroleum								
						i cirolcum				-	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthour	rs .	Thousan	d barrels
1960	5,976	180	16,151	4,525	472	32,583	6,658	9,046	69,435	0	887	0	NA	NA
1965 1970	7,259 8,787	249 342	18,960 22,356	5.781	2,624 3,491	35 278	4,980 5,159	9,886	77,507 94,435 97,523 107,166	143	1,093 894	0	NA	NA
1970 1971	7.884	342 351	23.814	8,887 9,430	3.985	44,122 45,866	4.133	10,420 10,295	94,435 97.523	0 1,394	894 980	0	NA NA	NA NA
1972	8,287	351 351	26,014	10,415	4,528	47.727	7,115	11,367	107,166	3,559	1,041	0	NA	NA
1973 1974	9,384 10,141	361 352	26,735 25,009	9,816 9,259	5,185 5,545	49,154 47,932	7,038 5,891	12,443 11,963	110,370 105,600 102,651	3,270 4,363	1,057 918	0	NA NA	NA NA
1974 1975	10,120	352 331	25,009 24,369	9,259 9,187	5,545 5,629	47,932 48,253	5,891 4,326	10.887	102,651	4,363 9,750	918 917	Õ	NA	NA
1976 1977	12,056 14,702	320 293	28,359 26,975	8,769 8,304	5,313 5,271	49,942 50,914	5,629 4,487	11,691 11,342	109,702 107,294	9,911 11,163	588 670	0	NA NA	NA NA
1978	14,374 12,954	313	28,693 27,020	7,326 8,509	5.093	52,943 50,475	4,395 2,635	11,524 10,449	109,974	11,591 11,503	1,081 917	Ö	NA	NA
1979 1980	12,954 13,810	334 286	27,020 21,382	8,509 7,697	5,644 5,142	50,475 46,211	2,635 3,183	10,449 8,630	109,974 104,732 92,244	11,503 10,027	917 786	0	NA NA	NA NA
1981	13,894 12,115	266 262	18,698	5,956 7,492	4,516	45,024	1,576	7,441	83,211 86,750	10,187	938	ŏ	9	NA
1982	12,115	262	20.900	7,492	4,261 4,044	44.877	1.693	7,527 9,040	86,750	10,197	1,006	0	11 8	NA NA
1983 1984	11,984 13,258	241 256	17,388 19,099	7,538 4,983	7,331	46,061 48,051	1,567 1,109	9,269	85,636 89,842	11,753 8,328	1,073 971	0	6	NA
1985 1986	12.744	257 245	19.891	5,353 6,280	7.781	45.285	859 1,797	9.245	88,414 90,769	11.572	973 1,081	0	658	NA
1987	11,327 14,504	245 240	19,275 19,310	5.418	7,801 5,656	45,776 47,018	1.208	9,840 10,709	89.318	11,052 11,554	865	0	812 521	NA NA
1988 1989	17,285	284	20,497	5,621	5,142	48,813	1,277	10,769	92,118	12,288	677	(s)	418	NA
1989 1990	18,279 18,377	300 291	20,592 19,576	6,088 5,966	4,663 5,099	48,576 47,760	1,062	11,666	92,648 92,275	10,926 12,139	817 857	(s) (s)	493 577	NA NA
1990 1991	16.993	314	21,107	5,966 6,595	5,099 4,978	48.578	961 1,047	12,912 11,518	92,275 93,822	12.059	857 1,037	(s)	577 1,102	NA
1992 1993	16,924 18,321	309 328	21,270 20,786	8,008 8,926	6,621 9,438	49,693 51,348	1,176 1,235	12,711 12,061	99,477 103,793	11,166 11,986	1,063 1,151 1,139 1,098 1,187 1,035 955 1,179 931	(s)	1,729 3,224	NA NA
1994	18.729	324	22.035	9.445	9.780	52.540	1 085	12.612	107.497	12.224	1,139	(s) 40 57 50 54 147	3.690	NA
1995	18,947	324 353 368	23,038	9,758	9,969	54.303	647 783	13,762	111,477	13,243	1,098	57	3,968	NA NA
1996 1997	19,703 19,086	368 354	24,016 23,757	12,018 10,269	10,625 10.892	54,866 55,755	783 695	15,478 15,626	117,787 116,994	12,095 10.819	1,187 1.035	50 54	3,023 4,523	NA NA
1997 1998	19,086 19,958	354 331	23,757 24,606	10,269 7,410	10,892 10,709	55,755 58,106	695 515	15,626 14,941	116,994 116,288	10,819 11,644	955	147	4,523 5,063	NA
1999 2000	19,082 20,735	345 362	23,920 24,846	8,705 9.844	12,591 13,301	59,894 61,120	552 930	16,224 15,338	121,888 125,378	13,316 12,960	1,179	486 725	5,500 5,589	NA NA
2001	19,683 20,455	341	24.995	8,705 9,844 8,974	11 588	62.236	1.146	15.469	124.408	11.789	832	897	5.718	14
2002 2003	20,455 21,998	372 371	24,636 25,336	11,302 10,862	11,064 11,977	63,503 64,638	992 1,063	14,196 15,435	125,694 129,311	13,685 13,414	809 815	906 978	6,190	23
2004	21,382	360 368	25,336	11,662	12,505	64,804	1.461	15,463	132,351	13,414	738 775	812	6,736 6,403 5,016	37
2005	21.381	368	26,457 26,439	11,662 11,161	12,505 12,656	64,804 64,697	1.710	16.777	132,351 133,440	13,296 12,835	775	1.582	5,016	23 19 37 125 359 487
2006 2007	20,935 20,595	353 388 425	26,035 27,334 26,562	10,363 10,401	11,773 11,275	64,432 64,627	851 1,348	16,273 15,715	129,726 130,701 124,843	13,183 13,103	572 654 727 809	2,055 2,639	4,621 5,848	359 487
2008	20.182	425	26,562	9.701	10,238 9,200	62,903	2,051 691	13.388	124,843	12.997	727	4.355	6,235 6,140	/1R
2009 2010	18,576 17,929	394	23,162 25,225	10,587	9,200 8,372	62,903 61,240 61,587 58,738 60,715	691	12,083 12,299	116 063	12,393 13,478	809	5,053 4,792	6,140	443 358 1,219 1,239
2010	17,846	423 421 422	25,225 26.464	8,133 7,955 7,345	8.129	58.738	585 520 128	12,299	114.053	13,476	840 746 561	6,726	7,043 7.038	1.219
2012	14,518	422	26,464 26,634	7,345	7,954	60,715	128	12,247 12,390	115,166	11,959 11,944	561	8 176	7,295	1,239
2013 2014	15,041 17,781	468 475 431	27,217 27,807	9,688 11,296 9,046	9,091 8 495	60,569 60,631 62,346	95 67 92	12,433 11,633 12,271	116,200 114,053 115,166 119,095 119,930	10,708 12,707 12,039	511 548 849	8,259 9,691 9,779	7,843 7,038 7,295 7,406 7,386 7,795	1,248 1,597 1,784
2015	15.425	431	25,674	9,046	8,495 8,919	62,346	92	12,271	118,349 R 122,689 R 122,384 R 124,567 R 127,751 R 109,155 R 114,562	12,039	849	9,779	7,795	1,784
2016 2017	14,752 14,568	450 452	27,791 27,881	9,028 10,572	9,203 9,495	63,993 63,511	121 20	H 12,554 R 10 905	<sup>H</sup> 122,689 R 122 384	13,861 13,904	1,209 1,258 1,054 1,056 1,002	9,933 11,137	7,957 7 932	1,948 1,959
2018	14.895	490	29.972	11,852 13,310	9.209	62.071	14	R 11,449	R 124,567	14,601	1,054	10,714	7,688	2,836 3,590
2019	11,604	520	31,014	13,310	9,598	61,762	44 23	R 12,024	R 127,751	14,105	1,056	10,965	7,788	3,590
2020 2021	9,205 10,150	469 495	26,351 R 26,285	12,194 11,534	4,621 6,458	53,610 56,840	23 27	R 13.418	R 114.562	14,677 14,123	1,002 679	11,831 12,271	6,795 7.148	3,051 R 2,959
2021 2022	10,478	495 507	26,430	11,534 11,940	7,327	56,902	27 27	12,2/1 R 12,554 R 10,905 R 11,449 R 12,024 R 12,356 R 13,418 13,263	115,888	14,696	679 950	15,091	7,795 7,957 7,932 7,688 7,788 6,795 7,148 7,237	2,959

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Minnesota (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
						Petroleum						(as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	131.3	186.1	94.1	17.3	2.6	171 2	41.9	54.3	381.3	698.7	186 1	94.1	171 2
1965 1970	160.0 179.7	248.2	110.4 130.2 138.7	22.2	14.8	171.2 185.3 231.8 240.9 250.7 258.2 251.8 253.5 262.3 267.5	31.3 32.4	60.1	424.1	832.3	186.1 248.2 343.0 352.1 352.1 360.5 352.0 331.5 319.5 292.5 312.2 332.6 285.0	110.4 130.2 138.7 151.5	171.2 185.3 231.8 240.9 250.7 258.2 251.8 253.5 262.3 267.5 278.1 265.1
1970 1971	179.7	343.0	130.2	33.9	19.7	231.8	32.4	64.4	512.5	1,035.2	343.0	130.2	231.8
1971 1972	155.6 161.6	352.1 352.1	158.7	22.2 33.9 36.0 39.7 37.3 35.1 34.7 33.2 31.3	22.5 25.6	240.9 250.7	26.0 44.7 44.2	63.7 70.8	424.1 512.5 527.8 583.1 602.6 575.6 556.8 599.2 584.8 601.1 567.9 498.3 450.2 467.3 460.8 489.0 481.7 494.2 487.3 501.5 503.8 502.9 509.4	1,035.6 1,096.7	352.1 352.1	138.7 151.5	240.9 250.7
1972 1973 1974 1975	180.7	352.1 360.5	151.5 155.7 145.7	37.3	29.3	258.2	44.2	77.7	602.6	1,143.8	360.5	155.7	258.2
1974	188.7	352.0	145.7	35.1	31.4 31.9	251.8	37.0 27.2 35.4 28.2	74.6	575.6	1,116.2	352.0	155.7 145.7 141.9	251.8
1975	191.5	331.5	141.9 165.2	34.7	31.9	253.5	27.2	67.6	556.8	1,079.8	331.5	141.9	253.5
1976 1977	264.9	319.5 292.5	157.1	33.2 31.3	30.1 29.8	262.3 267.5	28.2	73.0 70.9	599.2 584.8	1,141.2 1,142.3	292.5	157.1	262.3 267.5
1978 1979 1980	222.4 264.9 255.7	312.2	167 1	27.4 31.3 28.2	28.8	278.1	27.6	72 1	601.1	1.169.1	312.2	165.2 157.1 167.1	278.1
1979	229.5 242.4 244.2 212.5 211.2	332.6 284.9	157.4 124.5	31.3	31.9 29.1	278.1 265.1 242.7 236.5 235.7 242.0 252.4 237.9 240.5 247.0 256.4 255.2 250.9 255.2 260.7	27.6 16.6 20.0	65.6 53.7	567.9	1,130.0	332.6	157.4 124.5	265.1
1980	242.4	284.9	124.5	28.2	29.1	242.7	20.0	53.7	498.3	1,025.7	285.0	124.5	242.7
1981 1982 1983	212.5	264.8 263.0 246.3	108.9 121.7 101.3	21.9 27.2 27.5	25.5 24.1 22.9	235.7	9.9 10.6 9.9 7.0 5.4 11.3 7.6 8.0	47.4 47.9 57.4	467.3	959.2 942.8 918.3	265.0 263.3 246.3	108.9 121.7	236.5 235.7 242.0
1983	211.2	246.3	101.3	27.5	22.9	242.0	9.9	57.4	460.8	918.3	246.3	101.3	242.0
1984 1985	231.4 226.1	256.4	111.2 115.9	18.3	41.5	252.4	7.0	58.6	489.0	976.8	256.4	111.2 115.9	252.4 237.9
1985 1986	226.1 201.4	256.4 258.5 244.5	115.9 112.3	19.5 23.1	41.5 44.1 44.2	237.9	5.4 11.3	58.6 58.9 62.9	481.7 494.2	976.8 966.3 940.1	258.5 244.5	115.9 112.3	237.9
1987	256.0 303.6	239.7 285.4	112.3 112.5 119.4	20.1	32.0 29.1	247.0	7.6	68.1 67.7	487.3	983.0	239.8	112.3 112.5 119.4	240.5 247.0 256.4
1986 1987 1988 1989	303.6	285.4	119.4	18.3 19.5 23.1 20.1 20.8	29.1	256.4	8.0	67.7	501.5	1,090.5	256.4 258.5 244.5 239.8 285.8	119.4	256.4
1989	324.9 325.5	301.4 291.8	119.9	22.7	26.4 28.9	255.2	6.7 6.0	72.9 81.1	503.8	1,130.0 1,120.1	301.7	119.9 114.0	255.2
1991	301.5	318.2	114.0 122.9 123.9 121.1	22.7 21.9 24.2 29.3 32.8	28.9	255.9	6.6	72.4	502.9	1,120.1	301.7 291.8 318.2 312.2 331.6	122.9	255.2 250.9 255.2 261.0 267.9
1992 1993	301.5 300.8 325.9	318.2 312.2 331.5	123.9	29.3	28.2 37.5 53.5	261.0	7.4 7.8	72.4 79.5 75.5	538.6	1,129.1 1,151.5 1,204.6	312.2	122.9 123.9 121.1	261.0
1993	325.9	331.5	121.1	32.8	53.5	256.7	7.8	75.5	547.2	1,204.6	331.6	121.1	267.9
1994 1995 1996	332.8 338.0	327.1 357.5	128.2	34.7 35.8	55.4 56.5 60.2	261.1	6.8	78.6 86.6	565.0 585.0	1,224.9 1,281.4	327.4 357.7 375.0	128.2 134.1 139.8	273.9 282.6 285.9
1996	354.6	374.3	134.1 139.8	44 2	60.2	275.4	4.9	97.0	621.5	1.350.4	375.0	139.8	285.9
1997	341.6 357.0	360.3 337.1	138.3 143.2	38.1	61.8	274.5	4.4	97.9 94.0	614.8	1,316.7	360.4	138.3	290.2 302.3
1997 1998 1999 2000	357.0 341.5	337.1 351.1	143.2 139.2	38.1 27.4 32.2	60.7 71.4	284.8	3.2	94.0 102.2	613.3	1,307.4 1,333.6	360.4 337.1 351.1	138.3 143.2 139.2	302.3
2000	373.8	367.1	144 6	36.4	71. <del>4</del> 75.4	292.5 298.5	5.5 5.8	96.8	657.5	1,333.6	367.5	139.2	317.0
2001	353.3	367.4 344.9 374.2	144.6 145.4 143.4	36.4 33.1 41.0	75.4 65.7	303.9	7.2	96.8	652.1	1,398.6 1,350.3 1,385.6	345.0	145.4	311.6 317.9 323.7
2002	373.8 353.3 360.8 390.7	374.2	143.4	41.0	62.7	308.7	6.2	88.6	650.6	1,385.6	374.2	144.6 145.4 143.4 147.4 153.9	330.2
2003 2004	390.7 378.8	374.2 362.3	147.4 153.9	40.2 42.6	67.9 70.9	312.6 314.5	6.7	96.5 96.9	6/1.2 688.0	1,436.1 1,429.1	3/4.2 362 4	147.4 153.0	335.9 336.7
2005	379.1	372.1	153.8	40.8 37.8	71.8	318.5	10.7	105.3	565.0 585.9 621.5 614.8 613.3 641.0 657.5 652.1 650.6 671.2 688.0 700.9 680.9	1,452.1	372.2	153.8	335.9
2006	370.8	372.1 358.2 395.7 435.1	151 1	37.8	66.8	318.1	5.3	101.9	680.9	1.410.0	358.2	151.1	335.9 334.1 332.3 321.2
2007 2008	366.2 359.4	395.7	158.1 153.5 132.8	37.9 35.7 38.4	63.9 58.1	312.0	8.5	98.5 83.8	679.0	1,440.8 1,438.0	395.7	158.1 153.5	332.3
2009	328 7	405.1	132.8	38.4	52.2	299.6	4.3	75.6	593.8	1 327 9	435.1 405.6	133 8	321.2
2010 2011	315.4 315.6	405.5 427.2 425.0	145.0 150.8	31.2 30.6	47.5 46.1	261.1 268.8 275.4 274.5 284.8 292.5 298.5 303.9 308.7 312.6 314.5 318.1 312.0 299.6 290.5 284.9 273.0 282.0 280.8 281.1	6.8 4.1 4.9 4.4 3.2 3.5 5.8 7.2 6.2 10.7 5.3 8.5 12.9 4.3 3.7 3.3 0.6 0.4	77.0 76.5	679.0 643.5 593.8 589.2 580.2	1,331.9 1,320.8	367.5 345.0 374.2 374.2 362.4 372.2 358.2 395.7 435.1 405.6 427.2 425.0	145.7 152.7	311.7 312.1 297.4
2011	315.6	425.0	150.8	30.6	46.1	273.0	3.3	76.5	580.2	1,320.8	425.0	152.7	297.4
2012 2013	257.9 267.7	430.3 478.6	151.5 153.2	28.2 37.2	45.1 51.5	282.0 280.8	0.8 0.6	77.4 77.6	585.1 600.9	1,2/3.3 1 347 2	430.3 478 6	153.6 156.9	307.3 306.5
2014	313.1	490.1	151.5 153.2 156.7	28.2 37.2 43.4	45.1 51.5 48.2	281.1	0.4	77.6 72.7	585.1 600.9 602.4	1,273.3 1,347.2 1,405.6	430.3 478.6 490.2	153.6 156.9 160.3	307.3 306.5 306.7
2015	271.6	448.6	144.3 154.5 155.3	34.7 34.7	50.6	288.2	0.6 0.8	76.7	595.1	1,315.2 R 1,345.5 R 1,336.5	448.6 466.4	147.9 160.0	315.3 323.5 320.9
2016 2017	261.2 257.6	466.4 466.9	154.5	34.7 40.6	52.2 53.8	295.9	0.8 0.1	79.9 B 68.7	617.8 R 612.0	<sup>n</sup> 1,345.5 R 1 336 5	466.4	160.0 160.5	323.5
2017	261.5	514.2	167.7	40.6 45.5	52.2	286.9	0.1	R 72.5	R 624.9	H 1 100 6	514.2	172 6	313.7
2019	205.1	549.5	173.8	51.1	54.4	284.9	0.3	R 68.7 R 72.5 R 76.0	R 640.5	H 1 305 1	549.6	178.6	312.0
2020	162.7 179.1	496.0 523.8	147.4 R 149.7	46.8 44.3	26.2	288.2 295.9 293.3 286.9 284.9 247.2 262.2	0.1 0.2	R 78.1 R 83.2	595.1 617.8 R 612.0 R 624.9 R 640.5 R 545.9 R 567.0	R 1,204.6 R 1,269.9	466.9 514.2 549.6 496.0 523.8	151.7	270.8 287.0
2021 2022	179.1 184.5	523.8 533.9	<sup>1</sup> 149.7 150.5	44.3 45.9	36.6 41.5	262.2 262.1	0.2 0.2	<sup>□</sup> 83.2 82.3	567.0 573.2	1,269.9 1,291.6	523.8 533.9	178.6 151.7 R 151.5 152.4	287.0 287.3

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Minnesota (continued) (trillion Btu)

1960	Internation   Internation	R-19.3 0.3 R-15.8 0.4 R-18.4 0.4 R-18.6 0.5 R-16.5 0.4 R-19.7 0.6	Total <sup>f</sup> B R 708.1 B R 845.7 B R 1,080.5 B 1,119.6
Year         electric power         eléctric power         eléctric power         Wood and waste f.g         Fuel ethanol h         Biodiesel         Renewable diesel         and coproducts i         Total f         Geother thermal f         Solar f.j         Wind           1960         0.0         R 3.0         25.4         NA         NA         NA         NA         25.4         0.0         NA         NA           1970         0.0         R 3.0         23.4         NA	Internation   Internation	rstate Electricity w of net ricity k imports	Total <sup>f</sup> B R 708.1 B R845.7 B R1,080.5 B R1.119.6
1965         1.7         R 3.7         23.4         NA         NA         NA         NA         23.4         0.0         NA         NA           1970         0.0         R 3.0         23.4         NA         NA         NA         NA         23.4         0.0         NA         NA           1971         15.1         R 3.3         23.5         NA         NA         NA         NA         23.5         0.0         NA         NA           1972         38.4         R 3.6         24.9         NA         NA         NA         NA         24.9         0.0         NA         NA           1973         35.7         R 3.6         24.9         NA         NA         NA         NA         NA         24.9         0.0         NA         NA           1974         48.7         R 3.1         26.3         NA         N	R 28.4 R 27.1 R 26.5 F 26.8 R 28.4 R 29.1 R 29.4 R 30.5	R -19.3 0.3 R -15.8 0.4 R 18.4 0.4 R 41.6 0.5 R 16.5 0.4 R 19.7 0.6	H 845.7 H 1,080.5 H 1,119.6
1970         0.0         P3.0         23.4         NA         NA         NA         NA         23.4         0.0         NA         NA           1971         15.1         P3.3         23.5         NA         NA         NA         NA         23.5         0.0         NA         NA           1972         38.4         P3.6         24.9         NA         NA         NA         NA         24.9         0.0         NA         NA           1973         35.7         P3.6         25.5         NA         NA         NA         NA         NA         24.9         0.0         NA         NA           1974         48.7         P3.1         26.3         NA	R 27.1 R 26.5 R 26.8 R 28.4 R 29.1 R 29.4 R 30.5	1-15.8 0.4 R 18.4 0.4 R 41.6 0.5 R 16.5 0.4 R 19.7 0.6	H 1,080.5
1973     35.7     H 3.6     25.5     NA     NA     NA     NA     25.5     0.0     NA     NA       1974     48.7     H 3.1     26.3     NA     NA     NA     NA     NA     26.3     0.0     NA     NA       1975     107.4     H 3.1     27.4     NA     NA     NA     NA     27.4     0.0     NA     NA       1976     109.5     H 2.0     29.5     NA     NA     NA     NA     29.5     0.0     NA     NA       1977     120.2     H 2.3     29.7     NA     NA     NA     NA     29.7     0.0     NA     NA       1978     126.8     H 3.7     39.0     NA     NA     NA     NA     NA     39.0     0.0     NA     NA       1979     125.1     H 3.1     44.5     NA     NA     NA     NA     NA     NA     NA     NA       1980     109.4     H 2.7     46.6     NA     NA     NA     NA     NA     NA     NA     NA       1981     112.4     H 3.2     46.8     (s)     NA     NA     NA     0.0     NA     NA	R 26.8 R 28.4 R 29.1 R 29.4 R 30.5	R 41.6 0.5 R 16.5 0.4 R 19.7 0.6	R 1.119.6
1973     35.7     H 3.6     25.5     NA     NA     NA     NA     25.5     0.0     NA     NA       1974     48.7     R 3.1     26.3     NA     NA     NA     NA     NA     25.5     0.0     NA     NA       1975     107.4     R 3.1     27.4     NA     NA     NA     NA     27.4     0.0     NA     NA       1976     109.5     R 2.0     29.5     NA     NA     NA     NA     29.5     0.0     NA     NA       1977     120.2     R 2.3     29.7     NA     NA     NA     NA     NA     29.7     0.0     NA     NA       1978     126.8     R 3.7     39.0     NA     NA     NA     NA     NA     NA     NA       1979     125.1     R 3.1     44.5     NA     NA     NA     NA     NA     NA     NA       1980     109.4     R 2.7     46.6     NA     NA     NA     NA     NA     NA     NA       1981     112.4     R 3.2     46.8     (s)     NA     NA     NA     0.0     46.8     0.0     NA	R 28.4 R 29.1 R 29.4 R 30.5	R 16.5 0.4 R 19.7 0.6	H 1 100 F
1974 48.7	R 29.4 F R 30.5	_ 13.7 0.0	R 1,100.5
1975     107.4     H 3.1     27.4     NA     NA     NA     NA     27.4     0.0     NA     NA       1976     109.5     H 2.0     29.5     NA     NA     NA     NA     29.5     0.0     NA     NA       1977     120.2     H 2.3     29.7     NA     NA     NA     NA     29.7     0.0     NA     NA       1978     126.8     H 3.7     39.0     NA     NA     NA     NA     39.0     0.0     NA     NA       1979     125.1     H 3.1     44.5     NA     NA     NA     NA     44.5     0.0     NA     NA       1980     109.4     H 2.7     46.6     NA     NA     NA     NA     NA     46.6     0.0     NA     NA       1981     112.4     H 3.2     46.8     (s)     NA     NA     NA     0.0     46.8     0.0     NA     NA	H 30.5	R_11.0 0.2	H12055
1977 120.2	Bot F B	R -5.7 0.6	6 H 1,212.7
1978 126.8 <sup>H</sup> 3.7 39.0 NA NA NA NA 39.0 0.0 NA NA 1979 125.1 <sup>H</sup> 3.1 44.5 NA NA NA NA NA 44.5 0.0 NA NA NA 1980 109.4 <sup>H</sup> 2.7 46.6 NA NA NA NA NA 46.6 0.0 NA NA NA 1981 112.4 <sup>H</sup> 3.2 46.8 (s) NA NA NA 0.0 46.8 0.0 NA NA	R 31.5 R 32.0	3-20.3 0.7 3-61.4 0.6	R 1,233.7 R 1,318.6
1980 109.4 <sup>R</sup> 2.7 46.6 NA NA NA NA 46.6 0.0 NA NA 1981 112.4 <sup>R</sup> 3.2 46.8 (s) NA NA 0.0 46.8 0.0 NA NA	R 42.7 R	R -24.4 4.4	R 1,318.6
1981 112.4 P 3.2 46.8 (s) NA NA 0.0 46.8 0.0 NA NA	R 47.6 R 49.3	R 8.7 6.2	R 1,317.7
	R 49.3 R 50.0	R-1.0 0.2 R-20.3 0.7 R-61.4 0.6 R-24.4 4.4 F-8.7 6.2 R-4.6 3.3 R-23.2 0.3	R 1,192.3 R 1,145.1
1982 112.9 R 3.4 48.4 (s) NA NA 0.0 48.5 0.0 NA NA 1983 128.2 R 3.7 51.4 (s) NA NA 0.0 51.4 0.0 NA 0.0			
1984 903 H33 559 (s) NA NA 00 559 00 00 00	R 55.0 R 59.2	R 46.1 1.4 R 82.3 3.4 R 62.9 9.1	R 1,149.0 R 1,211.9 R 1,223.2
1985 122.9 R 3.3 56.3 2.3 NA NA 0.0 58.6 0.0 0.0 0.0 1986 116.9 R 3.7 52.2 2.8 NA NA 0.2 55.2 0.0 0.0 0.0	R 61.9	R 62.9 9.1 R 70.9 23.4	R 1,223.2
1987 120.6 B3.0 49.5 1.8 NA NA 0.2 51.5 0.0 0.0 0.0	H 5/1 // I	H 5/1 6 6 6	R 1,210.2 R 1,219.3
1988 130.3 P.2.3 52.8 1.4 NA NA 0.2 54.5 0.0 0.0 (s) 1989 115.6 P.2.8 52.9 1.7 NA NA 0.7 55.4 0.1 0.3 (s)	R 56.8	H53.7 _5.7	<sup>r</sup> 1,325.6
1989 115.6 R 2.8 52.9 1.7 NA NA 0.7 55.4 0.1 0.3 (s) 1990 128.5 R 2.9 48.8 2.0 NA NA 0.7 51.6 0.1 0.3 (s)	R 58.6 R 55.0	R 53.9 -1.5 R 93.7 2.5	7 1,356.7 R 1 300 7
1990 128.5 R 2.9 48.8 2.0 NA NA 0.7 51.6 0.1 0.3 (s) 1991 126.4 R 3.5 49.4 3.8 NA NA 1.1 54.3 0.2 0.3 (s)	R 55.0 R 58.4	R 93.7 2.5 R 99.5 9.7	R 1,399.7 R 1,423.1
1988 130.3	R 65.2	R 79.9 18.5 R 54.5 21.3	R 1,432.2 R 1,476.4
1993 125.9 R 3.9 52.1 11.2 NA NA 2.4 65.8 0.2 0.3 (s) 1994 127.8 R 3.9 53.4 12.8 NA NA 2.6 68.9 0.2 0.3 R 0.1	R 70.2 R 73.4 R 77.7	R 54.5 21.3 R 59.7 26.4 R 74.6 28.8	H 4 5 4 0 0
1995 139.1 R 3.7 56.2 13.8 NA NA 3.2 73.2 0.2 0.4 R 0.2 1996 127.0 R 4.1 57.1 10.5 NA NA 4.3 72.0 0.2 0.4 R 0.2	R 77.7	H 7/6 200	<sup>H</sup> 1.601.6
1996 127.0 P.4.1 57.1 10.5 NA NA 4.3 72.0 0.2 0.4 P.0.2 1997 113.5 P.3.5 55.6 15.7 NA NA 6.9 78.3 0.2 0.4 P.0.2	R 76.7 R 82.5	R 85.1 30.2 R 91.5 33.7 R 76.9 27.1 102.3 20.5 R 81.6 26.9	
1998 122.2 R3.3 50.9 17.6 NA NA 7.6 76.1 0.2 0.3 R0.5	R 80.4	R 91.5 33.7 R 76.9 27.1	H 1 613 0
1999 139.1 P.4.0 50.5 19.1 NA NA 11.7 81.2 0.2 0.3 P.1.7 2000 135.2 P.3.2 54.4 19.4 NA NA 13.4 87.2 0.2 0.3 P.2.5	R 87.5 R R 93.4	102.3 20.5 R 81.6 26.9	1,683.0 R 1 735.8
2001 123.1 P.2.8 54.4 19.8 0.1 NA 15.4 89.7 0.3 0.3 P.3.1 2002 142.9 P.2.8 46.3 21.5 0.1 NA 18.2 86.1 0.3 0.2 P.3.1	R 96.1 R R 92.4 R	108.6 28.2	) H17063
2002 142.9 R 2.8 46.3 21.5 0.1 NA 18.2 86.1 0.3 0.2 R 3.1 2003 139.8 R 2.8 43.9 23.4 0.1 NA 21.5 88.9 0.4 0.2 R 3.3	H 92.4 H	132.3 14.2	n 1 767 5
2003 139.8 R 2.8 43.9 23.4 0.1 NA 21.5 88.9 0.4 0.2 R 3.3 2004 138.6 R 2.5 52.8 22.2 0.2 NA 23.6 98.8 0.4 0.2 R 2.8	R 95.5 R R 104.6 R	181.1 -8.6 165.3 8.9	H 1 0 1 C C
2005 133.9 ''2.6 57.1 17.4 0.7 NA 24.5 99.6 0.4 0.1 ''5.4	R 108.3	130.5 26.7	′ <sup>H</sup> 1,851.4
2006 137.6 R 2.0 53.5 16.0 1.9 NA 31.6 103.1 0.5 0.1 R 7.0 2007 137.4 R 2.2 63.5 20.3 2.6 NA 33.6 119.9 0.6 0.1 R 9.0	R 112.7 R 131.9	134.2 27.0 136.2 23.4	1,821.5 R 1 869 8
2008 135.8 R 2.5 64.7 21.6 2.2 NA 40.1 128.6 0.7 0.2 R 14.9 2009 129.6 R 2.8 69.5 21.3 2.4 NA 52.4 145.5 0.9 0.2 R 17.2	R 146.8 R	127.2 26.5	n 1.874.4
2009 129.6 R 2.8 69.5 21.3 2.4 NA 52.4 145.5 0.9 0.2 R 17.2 2010 140.9 R 2.9 79.4 27.2 1.9 NA 60.2 168.8 1.0 0.2 R 16.3	R 166.6 R 189.2	R 95.0 26.6 128.9 24.2	5 <u>H</u> 1,745.8
2010 140.5 1.9 79.4 27.2 1.9 NA 00.2 100.0 1.0 0.2 100.5 2011 125.1 125.1 12.5 74.4 24.4 6.5 0.0 62.5 167.8 1.0 0.2 122.9	R 194.5 R	130.8 26.3	₹ ⊓1797 <i>4</i>
2012 125.2 R 1.9 73.3 25.3 6.6 0.0 56.8 162.1 1.1 R 0.2 R 27.9 2013 111.9 R 1.7 73.0 25.7 6.7 0.0 55.1 160.5 1.1 0.3 R 28.2	R 193.2 R R 191.8 R	138.7 22.2 146.1 27.0	R 1,752.6 R 1,824.1
2013 111.9 R 1.7 73.0 25.7 6.7 0.0 55.1 160.5 1.1 0.3 R 28.2 2014 132.9 R 1.9 80.8 25.6 8.6 0.0 60.2 175.1 1.1 R 0.3 R 33.1	R 211.4	146.1 27.0 100.8 23.0	11,824.1 R 1,873.8
2015 1050 R20 704 271 06 00 621 1781 11 R03 R334	R 215.7	R 67.8 27.0	) R <sub>1,751.7</sub>
2016 145.0 P.4.1 78.0 27.6 10.4 0.0 62.4 178.4 1.1 P0.4 P.33.9 2017 145.4 P.4.3 70.4 27.6 10.5 0.0 63.6 172.1 1.1 P.2.4 P.38.0 2018 152.7 P.3.6 71.4 26.8 15.2 0.0 65.0 178.4 1.1 P.4.0 P.36.6	R 217.9 R 217.9	R 38.1 28.9 R 61.5 24.6 R 78.9 13.1	1,775.3 R 1 785 a
2017 143.4 1	R 223.7	R 78.9 13.1	n 1 869 n
2019 147.3 R 3.6 65.1 27.1 19.2 0.0 66.8 178.2 1.1 R 4.8 R 37.4 2020 153.3 R 3.4 R 53.4 23.6 16.4 0.0 60.3 R 153.7 1.1 R 6.3 R 40.4	R 225.2 R 204.8	R 44.1 26.9 R 80.0 9.7	R 1 2 2 2 5
2021 H147.3 H2.3 H52.7 24.9 15.9 0.0 67.1 H160.5 1.1 H7.3 H41.9	R 213.1	R 44.1 26.9 R 80.0 9.7 R 87.3 7.4	R 1,652.5 R 1,725.0
2022 153.3 3.2 56.9 25.2 15.9 0.0 69.0 167.0 1.1 7.5 51.5	230.4	69.2 15.5	

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Minnesota

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	<b>s</b>			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	3,543	131	15,994	4,525	472	32,583	6,419	9,046	69,040	156					8.821			
1970	2,595	283	21,805	8,887	3,491	44,122	4,316	10,277	92,898	168					20,715			
1980	1,200	278	21,215	7,697	5,142	46,211	2,821	8,630	91,716	145					32,998			
1990	1,462	285	19,485	5,966	5,099	47,760	959	12,185	91,455	172					47,167			
2000 2005	2,097 1,372	352 342	24,599 26,207	9,844 11,161	13,301 12,656	61,120 64,697	929 1,631	14,258 15,668	124,051 132,020	248 130					59,782 66,019			
2005	1,362	328	25,886	10,363	11,773	64,432	829	15,516	128,798	96					66,770			
2007	1,417	354	26,937	10,401	11,275	64,627	1,278	15,379	129,898	96					68,231			
2008	1,419	400	26,405	9,701	10,238	62,903	2,026	13,111	124,385	118					68,794			
2009	1,221	370	23,040	10,587	9,200	61,240	686	12,083	116,836	134					64,004			
2010	1,347	387	25,161	8,133	8,372	61,587	585	12,299	116,136	127					67,800			
2011	1,331	393	26,412	7,955	8,129	58,738	520	12,247	114,002	117 74					68,533			
2012 2013	1,134 1,276	365 418	26,575 27,149	7,345 9,688	7,954 9,091	60,715 60,569	128 95	12,390 12,433	115,107 119,027	74 90					67,989 68,644			
2013	1,247	444	27,691	11,296	8,495	60,631	67	11,633	119,814	19					68,719			
2015	966	378	25,616	9,046	8,919	62,346	92	12,271	118,291	115					66,579			
2016	1,065	385	27,730	9,028	9,203	63,993	121	R 12,554	R 122,628	130					66,546			
2017	1,209	403	27,825	10,572	9,495	63,511	20	R 10,905	R 122,328	156					67,153			
2018	1,082	427	29,896	11,852	9,209	62,071	14	R 11,449	R 124,491	92					68,708			
2019	1,000	434	30,915	13,310	9,598	61,762	44	R 12,024 R 12,356	R 127,652 R 109,103	97					66,966			
2020 2021	738 790	383 401	26,299 R 26,071	12,194 11,534	4,621 6,458	53,610 56,840	23 27	R 13,418	R 114,348	68 51					64,055 66,589			
2021	884	440	26,330	11,940	7,327	56,902	27	13,263	115,788	73					66,635			
						· · ·			Trillion	Btu								
1960	76.8	135.9	93.2	17.3	2.6	171.2	40.4	54.3	378.9	R 0.5	25.3	NA	NA	NA	30.1	R 647.5	R 60.7	R 708.1
1970	54.2	283.9	127.0	33.9	19.7	231.8	27.1	63.6	503.1	R 0.6	23.2		NA	NA	70.7	R 935.7	R 144.8	R 1,080.5
1980	21.0	277.0	123.6	28.2	29.1	242.7	17.7	53.7	495.1	R 0.5	46.6		NA	NA	112.6	R 952 7	R 239.5	R 1,192.3
1990	27.0	286.4	113.5	21.9	28.9	250.9	6.0	76.7	498.0	R 0.6	41.1	0.7	0.1	0.3	160.9	R 1,017.2	R 382.5	R 1,399.7
2000	40.5	357.4	143.1	36.4	75.4	317.9	5.8	90.3	668.9	R 0.8	45.6		0.2	0.3	204.0	R 1,331.1	R 404.7	R 1,735.8 R 1.851.4
2005 2006	26.1 25.7	346.0 333.1	152.5 150.2	40.8 37.8	71.8 66.8	335.9 334.1	10.3 5.2	99.0 97.6	710.1 691.6	R <sub>0.4</sub> R <sub>0.3</sub>	47.8 44.7		0.4 0.5	0.1 0.1	225.3 227.8	R 1,381.3 R 1,357.5	R 470.1 R 464.0	1,851.4 R 1,821.5
2006	27.0	360.6	155.8	37.6 37.9	63.9	332.3	8.0	96.6	694.6	R 0.3	46.3		0.6	0.1	232.8	R 1,398.5	R 471.3	R 1.869.8
2008	27.2	409.9	152.6	35.7	58.1	321.2	12.7	82.2	662.5	R 0.4	46.9		0.7	0.2	234.7	R 1,424.8	R 449.5	R 1,874.4
2009	23.4	381.6	133.1	38.4	52.2	311.7	4.3	75.6	615.3	R 0.5	48.6	52.4	0.9	0.2	218.4	R 1,341.2	R 403.2	R 1,744.4
2010	25.7	390.7	145.3	31.2	47.5	312.1	3.7	77.0	616.8	R 0.4	55.2		1.0	0.2	231.3	R 1,381.6	R 432.2	R 1,813.9
2011	25.4	396.5	152.4	30.6	46.1	297.4	3.3	76.5	606.2	R 0.4	52.9		1.0	0.2	233.8	R 1,379.0	R 413.8	R 1,792.8
2012	21.4	372.0	153.3	28.2	45.1	307.3	0.8	77.4	612.2	R <sub>0.3</sub> R <sub>0.3</sub>	49.1	56.8	1.1	R 0.2 R 0.2	232.0	R 1,345.1 R 1,425.8	R 402.9	R 1,748.0
2013 2014	24.2 23.4	427.7 458.5	156.5 159.6	37.2 43.4	51.5 48.2	306.5 306.7	0.6 0.4	77.6 72.7	629.9 631.0	R 0.1	53.0 58.6		1.1	R 0.3	234.2 234.5		R 395.2 R 401.2	R 1,821.1 R 1,868.8
2014	17.6	392.7	147.6	34.7	50.6	315.3	0.4	76.7	625.5	R 0.4	56.9		1.1	R 0.3	227.2		R 361.9	R 1,745.7
2016	19.8	398.0	159.6	34.7	52.2	323.5	0.8	79.9	650.6	R 0.4	55.2		1.1	R 0.3	227.1	R 1,415.0	R 355.4	R 1,770.3
2017	22.1	415.3	160.2	40.6	53.8	320.9	0.1	R 68.7	R 644.4	R 0.5	47.8	63.6	1.1	R 0.4	229.1	R 1,424.3	R 356.2	R 1,780.5
2018	19.7	446.6	172.2	45.5	52.2	313.7	0.1	R 72.5	R 656.2	R 0.3	53.6		1.1	R 0.5		R 1,477.5	R 381.2	R 1,858.7
2019	18.5	455.5	178.0	51.1	54.4	312.0	0.3	R 76.0	R 671.9	R 0.3	R 55.8		1.1	R 0.6	228.5	R 1,498.9	R 325.2	R 1,824.1
2020	13.7	403.0	151.4 B 150.2	46.8	26.2	270.8	0.1	R 78.1	R 573.5	R 0.2	R 44.6		1.1	R 0.7	218.6		R 324.6	R 1,640.5
2021	14.7	422.2	R 150.3	44.3	36.6	287.0	0.2	R 83.2	R 601.6	R 0.2	R 44.2		1.1	R <sub>0.8</sub>	227.2		R 340.8	R 1,720.1
2022	16.4	463.1	151.8	45.9	41.5	287.3	0.2	82.3	609.0	0.2	48.0	69.0	1.1	1.0	227.4	1,435.4	319.9	1,755.2

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Minnesota

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>¢</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses <sup>i</sup>	Total e,h
1960	557	61	5,414	3,192	1,748	10,354				4,186			
1965 1970	352 320	86 102	6,309 7,197	4,152 6,563	1,556 1,195	12,017 12,017 14,955 14,004 9,069 6,574				6,063 9,031			
1970	320	102	7,197	6,563	1,195	14,955				9,031			
1975 1980 1985	70	114	7.242	6,203 3,008 2,465	558 114 137	14,004				10,189 11,749 13,261			
1980	30 48	103 107	5,946 3,973	3,008	114	9,069				11,749			
1985	48 36	107	3,973 3,743	2,465	137	6,5/4				13,261			
1990 1995	34	129	3,743	3,012 4,567	30 50	6,786 7,702				16,000			
2000	1	130	3,085 2,294	5,583	33	7 910				18 629			
2005 2006	6	129 117	1.956	5.197	27	7,181 6,454 6,666				21.743			
2006	8	117	1,541	5,197 4,894	27 18	6,454				21,909			
2007	6	129	1,956 1,541 1,544	5,111	11	6,666				14,858 16,974 18,629 21,743 21,909 22,646 22,357 22,034 22,465 22,524 22,060			
2008	0	139	1,711	5,307	.8	7,026				22,357			
2009	0	139 133 123	1,018	5,377	18 20	6,413				22,034			
2010 2011	0	123	1,169	5,058	20	6,247				22,465			
2011	0	125 109	987 821	5,075 4,408	13 5	6,075 5,234				22,324			
2012	0	140	966	5 136	9	6 111				22,000			
2013 2014 2015	ŏ	147	896	5,136 6,113 5,317		6,111 7,021 6,095				22,850 22,791 21,714			
2015	Ö	118	896 770	5,317	12 8	6,095				21,714			
2016	0	118	791	5,280	13	6,084 7,134				21,804 21,574			
2017	0	124	628	6,497	9	7,134				21,574			
2018	0	141	689	7,314	. 9	8,013				22,837 22,288			
2019 2020	0	145 130	560	8,051 7,324	14	8,625 7,839				22,288			
2020	0	130	500 763	7,324 6,975	14 10	7,839 7,748				22,936 23,246			
2022	0	151	850	7,746	10	8,606				23,418			
				7,7.10		3,555	Trillion Btu			20,110			
												Paga	P. 400.0
1960	12.2 7.7	63.6 86.3 102.0	31.5 36.7	12.3	9.9	53.7	17.6 13.6	NA	NA	14.3 20.7	161.4	n 28.8	n 190.2
1905	7.7 6.8	86.3 102.0	36.7 41.0	15.9 25.2	8.8	01.5 73.0	13.6	NA NA	NA NA	20.7	189.8	H 40.7	R 230.5
1960 1965 1970 1975	1.3	114.7	41.9 42.2	23.8	6.8 3.2	61.5 73.9 69.2	11.3	NA NA	NA	30.8 34.8	224.6 231.2	R 28.8 R 40.7 R 63.1 R 71.0	R 302 2
1920	0.6	103.1	34 6	11.6	0.6	46.8	14.9	NA	NA	40.1	205.5	n 85.3	R 290.8
1985 1990 1995 2000	0.9 0.6	107.1	23.1 21.8	9.5	0.6 0.8 0.2	33.4 33.5 35.8	19.1	NA	NA	40.1 45.2 50.7 57.9 63.6 74.2 74.8 77.3 76.3 75.3 76.6	205.5 205.8 204.0 235.2	R 91.9	R 297.7
1990	0.6	107.4	21.8	11.6	0.2	33.5	11.2	0.1	0.3	50.7	204.0	R 120.5	R 324.4
1995	0.7	130.4	18.0	17.5	0.3 0.2	35.8	10.0	0.2	0.4	57.9	235.2	H 122.7	H 357.9
2000	(s)	131.7	13.3	21.4	0.2	35.0	7.9	0.2	0.3	63.6	238.7 247.2	n 126.1	n 364.8
2005	0.1	130.2 119.1 131.4 142.8	11.4	20.0	0.2	31.5	10.7	0.4 0.5	0.1 0.1	74.2	247.2	'' 154.8 B 450.0	11 402.0 B 204.0
2006 2007 2008	0.1 0.1	119.1	8.9 8.9 9.9	18.8 19.6	0.1 0.1	27.8 28.6 30.3 26.6 26.3	9.5 10.5	0.5	0.1	74.8 77.3	232.0 248.6 262.0	R 152.3	R 405.0
2007	0.0	142.8	9.9	20.4	(s)	30.3	11.7	0.7	0.1	76.3	262.0	R 146 1	R 408.1
2009	0.0	137.3	5.9	20.7	0.1	26.6	14.0	0.9	0.2	75.2	254.3	R 138 8	R 393 1
2009 2010	0.0	137.3 124.2	5.9 6.7	19.4	0.1	26.3	15.0	1.0	0.2 0.2	76.6	254.3 243.4	R 143.2	R 386.6
2011	0.0	126.4 111.2	5.7	19.5 16.9	0.1	25.3 21.7	14.6 12.2	1.0	0.2	76.9	244.3 221.6	R 136.0	R 380.3
2012	0.0	111.2	5.7 4.7 5.6	16.9	(s) 0.1	21.7	12.2	1.1	0.2 0.2 R 0.2 R 0.2	76.9 75.3 78.0	221.6	R 91.9 R 120.5 R 122.7 R 126.1 R 156.8 R 152.3 R 156.4 R 146.1 R 138.8 R 143.2 R 136.0 R 130.7 R 131.6 R 131.6 R 116.4 R 116.4 R 116.4 R 116.4 R 116.4 R 116.4 R 116.2 R 119.0	H 352.3
2013	0.0	143.1	5.6	19.7		25.3	15.9	1.1	H 0.2	78.0	263.6 275.3 R 240.0 R 237.1 R 245.3 R 278.2 R 284.6	H 131.6	H 395.1
2014	0.0	151.4	5.2	23.5	0.1	28.7	16.1	1.1	n 0.2	77.8 74.1 74.4 73.6	275.3	n 133.1	n 408.3
2015	0.0	122.1	4.4 4.6	20.4 20.3	(s) 0.1	24.9 24.9	17.6	1.1 1.1	R 0.2	/4.1 7//	R 227 4	" 118.0 R 116.4	R 252.5
2016 2017	0.0 0.0	121.7 127.7	3.6	20.3 25.0	0.1	24.9 28.6	14.7 13.9	1.1	R 0.2 R 0.3 R 0.3	74.4 73.6	R 245 3	R 114.4	R 350 7
2018	0.0	147.9	4.0	28.1	0.1	32.1	18.9	1.1	R 0.4	73.0 77.9	R 278.2	R 126.7	R 404 9
2018 2019	0.0	147.9 151.8	4.0 3.2	28.1 30.9	0.1	32.1 34.2	21.0	1.1	R 0.4 R 0.4	76.0	R 284.6	R 108.2	R 392.8
2020 2021	0.0	136.8 137.6	2.9	28.1 26.8		31.1	21.0 R 12.3 R 11.0	1.1	R 0.5	78.3	R 260.0 R 260.8	R 116.2	R 376.2
2021	0.0	137.6	2.9 4.4 4.9	26.8	0.1 0.1	31.1 31.2 34.7	H 11.0	1.1	R 0.5 R 0.6 0.7	77.9 76.0 78.3 79.3 79.9	H 260.8	H 119.0	R 190.2 R 230.5 R 287.8 R 302.2 R 297.7 R 324.4 R 357.9 R 364.8 R 402.0 R 408.1 R 393.1 R 393.1 R 386.6 R 380.3 R 352.3 R 352.3 R 352.3 R 358.5 R 359.7 R 408.3 R 358.5 R 358.5 R 359.7 R 404.9 R 392.8
2022	0.0	158.4	49	29.8	0.1	3/1.7	15.1	1.1	0.7	70 Q	290.0	112.4	402.4

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Minnesota

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	387	20	1 323	464	378	142	634	2 942	NA			NA	1,540			
1965	387 265	20 27	1,323 1,542	604	337	142 158	414	2,942 3,055	NA			NA	2,026			
1970 1975	252 163	77 90	1,759 1,770	955 902	259 121	235 355	393 223	3,601 3,372	NA NA			NA NA	3,178 4,845			
1980	113	64	1,443	438	0	340	223 32	2,252	NA			NA	5,724			
1985 1990	171 143	77 78	2,845 1,091	359 438	24 5	335 1,568	223 259	3,786 3,362	NA 0			NA (s)	7,469 8,813			
1995	229	91	862	664	23	1,568 50	111	1,711	ŏ			(s)	10,407			
2000 2005	5 67	95 96	889 1,002	812 709	54 14	50 53	137 306	1,942 2,083	0			(s)	12,311 21,985			
2006	83	87	666	680	12	1,378	235	2,971	Ö			(s)	22,175			
2007 2008	57 60	91 100	727 932	581 959	10 7	941 861	88 186	2,347 2,945	0			(s)	22,523 22,604			
2009	54	96	1,045	789	3	652	190	2.680	ŏ			i	22.311			
2010 2011	42 36	90 94	808 1,048	671 777	6	686 631	182 132	2,353 2,590	0			2	22,515 22,371			
2012	3	83	968	678	Ĩ	682	15	2.343	Ö			6	22,496			
2013 2014	6 10	106 111	1,218 1,241	946 1,075	3 2	618 635	4	2,788 2,960	0			6 10	23,041 22,828			
2015	8	93	1,054	988	1	1.523	1	3,567	0			14	23,388			
2016 2017	10 8	93 100	971 1,081	1,129 1,326	4	1,569 998	4	3,676 3,411	0			17 24	23,502 23,274			
2018	6	110	852	1,622	2	1,014	4	3,494	0			28	23.399			==
2019 2020	5	113 102	775 617	1,440 1,519	2	1,024 1,030	2	3,242 3,167	0			35 44	22,904 21,527			
2020	6	102	930	1,519	2	1,039	4	3,463	0			52	22,093			
2022	4	119	1,024	1,679	2	1,744	4	4,452	0			71	22,549			
								Tril	lion Btu							
1960 1965 1970	8.5 5.8	21.0	7.7 9.0	1.8 2.3	2.1	0.7	4.0 2.6	16.4	NA NA	0.3 0.3	NA	NA	5.3 6.9	51.5 56.4	R 10.6	R 62.1 R 70.0
1965	5.8	26.8 76.7	9.0 10.2	3.7	1.9 1.5	0.8 1.2	2.5	16.6 19.1	NA NA	0.2	NA NA	NA NA	10.8	112.2	R 13.6 R 22.2	F 134 4
1975	3.1	89.9	10.3	3.5	0.7	1.9	1.4 0.2	17.7	NA	0.2 0.4	NA	NA	16.5	127.5	H 33 8	R 161.2
1980 1985	2.4 3.3	63.6 77.3	8.4 16.6	1.7 1.4	0.0 0.1	1.8 1.8	1.4	12.1 21.2	NA NA	0.4	NA NA	NA NA	19.5 25.5	97.9 127.8	R 41.5 R 51.8	R 139.5 R 179.6
1990 1995	2.6	78.3	6.4	1.7	(s) 0.1	8.2	1.6	17.9	0.0	0.5 1.9	0.0	(s)	30.1	130.8	R 71.5 R 75.2	H 202 3
1995 2000	4.6 0.1	91.8 96.8	5.0 5.2	2.6 3.1	0.1 0.3	0.3 0.3	0.7 0.9	8.7 9.7	0.0 0.0	2.0	0.0 0.0	(s) (s)	35.5 42.0	142.6 150.6	H QQ Q	R 217.8 R 233.9
2005	1.3	97.1	5.8	2.7	0.1	0.3	1.9	10.8	0.0	2.0 2.1	0.0	(s)	75.0	186.3	R 156 6	R 342.8
2006 2007	1.5 1.1	88.6 93.1	3.9 4.2	2.6	0.1 0.1	7.1 4.8	1.5 0.6	15.2 11.9	0.0 0.0	2.2	0.0 0.0	(s) (s)	75.7 76.8	183.1 185.2	R 154.1 R 155.6 R 147.7	R 337.2 R 340.7
2008	1.1	101.9	5.4	2.2 3.7	(s)	4.4	1.2	14.7	0.0	2.2 2.4 2.5	0.0	(s)	77.1	107 1	B 147.7	R 340.7 R 344.8
2009	1.0	99.1 90.9	6.0	3.0	(s)	3.3 3.5	1.2	13.6	0.0	2.5	0.0	(s)	76.1	R 192.3 R 182.9	D 1/0 6	н 332.9
2010 2011	0.8 0.6	90.9 95.3	4.7 6.0	2.6 3.0	(s) (s)	3.5	1.1 0.8	11.9 13.1	0.0 0.0	2.6 2.5	0.0 0.0	(s) (s)	76.8 76.3	R 187 0	H 143.5	R 326.5 R 323.0
2012	0.1	84.7	5.6	2.6	(s)	3.5	0.1	11.7	0.0	2.3	0.0	R /e∖	76.8	<sup>rt</sup> 175.7	R 143.5 R 135.1 R 133.3 R 132.7	R 309.0 R 336.2
2013 2014	0.1 0.2	108.3 114.5	7.0 7.2	3.6 4.1	(s) (s)	3.1 3.2	(s) 0.1	13.8 14.6	0.0 0.0	2.6 5.2	0.0 0.0	R (s) R (s)	78.6 77.9	R 203.5 R 212.4		H 336.2 R 345.7
2015	0.2	96.6	6.1	3.8	(s)	7.7	(s)	17.6	0.0	5.6	0.0	R (e)	79.8	<sup>n</sup> 199.8	n 127 1	n 326.9
2016 2017	0.2 0.1	95.8 102.8	5.6 6.2	4.3 5.1	(s)	7.9 5.0	(s)	17.9 16.4	0.0 0.0	6.2 6.3	0.0 0.0	R 0.1 R 0.1	80.2 79.4	R 200.4 R 205.3	R 125.5 R 123.4	R 325.9 R 328.7
2017	0.1 0.1	102.8	6.2 4.9	6.2	(s) (s)	5.0 5.1	(S) (S)	16.4	0.0	6.8	0.0	R n 1	79.4 79.8	n 218 3	R 129.8	R 348.1
2019	0.1	119.1	4.5	5.5	(s)	5.2	(s)	15.2	0.0	6.7	0.0	R 0.1 R 0.1	78.1	H 210 /	R 129.8 R 111.2	R 348.1 R 330.7
2020 2021	0.1 0.1	106.7 107.7	3.6 5.4	5.8 5.7	(s) (s)	5.2 5.2	0.0 (s)	14.6 16.4	0.0 0.0	5.1 4.8	0.0 0.0	P 0.1 R 0.2	73.4 75.4	R 200.2 R 204.6	R 109.1 R 113.1	R 309.3 R 317.7
2022	0.1	125.6	5.9	6.4	(s)	8.8	(s)	21.2	0.0	5.6	0.0	0.2	76.9	229.7	108.2	338.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Minnesota

					Petrol	eum				Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet	1		Thousand	d barrels			Million kWh	Wood and waste <sup>f,g</sup>	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960 1965	2,555 2,776	49	6,062	841	4,266 3,947	5,690 4,213	5,024 6,593	21,884	156 178				NA	3,095 4,677			
1965	2,776	49 83	7,651	988	3,947	4,213	6,593	23,392	178				NA	4,677			
1970 1975	2,020 2,292	98 101	7,784 7,991	1,275 1,985	3,608 3,132	3,894 2,675	7,919 9,183	24,480 24,965	168 189				NA NA				
1975	2,292 1,057	101	7,991 5,708	4,183	1,336	∠,675 1,818	9,183 7,527	20,573	145				NA NA				
1985	1,057 1,027 1,283	66	4,985	2,406	1,718	481	8,206	17,796	145				NA NA	17,934			
1990	1,283	88	5,483	2,459	1,117	700	11,122	20,880	172				(s)	23,497			
1995	1,401	106	6,031	4,392	1,192	536	12,012	24,163	224				(s)	26,577			
2000 2005	2,092 1,300	106 95	4,857 5,741	3,442 5,156	996 1,299	570 1,092	13,206 14,824	23,070 28,112	248				(s)	28,842 22,266			
2005	1,300	103	5,741 5,296	4,702	1,299	396	14,824	26,339	130 96				(s)	22,266 22,664			
2007	1,354	114	5,150	4,618	1,476	789	14,566	26,599	96				(s)	23,041			
2008	1,354 1,359	144	6,017	3,265	924	1.203	12,364	23,773	118				(s)	23,810			
2009	1,167	128	5,417	4,306	987	336 198	11,333	22,380	134				(s)	19,637			
2010	1,305	158	6,722	2,384	1,302	198	11,755	22,362	127				(s)	22,798			
2011 2012	1,295	158 160	6,776	2,083 2,242	1,321 1,332	251	11,722	22,153	117				(s)	23,619			
2012	1,131 1,270	160	6,814 7,080	3,582	1,332	42 15	11,895 11,931	22,325 24,052	74 90				(s)	23,416 22,734			
2014	1,276	174	7,000	4.083	1,214	11	11,126	23,649	19				(3)	23,076			
2015	1,236 957	157	6,140	2,710	1,194	10	11.726	21,781	115				2	21,453			
2016	1.055	163	5,971	2,583	1,305	5	R 12 000	21,781 R 21,863	130				3	21,217			
2017	1,201	166	6,147	2,699	1,316	15	R 10,396	R 20,573 R 22,029	156				5				
2018	1,076	162	6,840	2,897	1,330	9	R 10,953 R 11,535	R 22,029	92 97				10	22,447 21,748			
2019 2020	995 734	162 141	7,251 6,922	3,734 3,323	1,281 1,295	43	R 11,942	R 23,505	68				12 17	19,572			
2021	784 784	152	6,404	3,050	1,268	43 23 23	R 11,288	R 22,033	51				21	21,227			
2022	880	153	6,473	2,410	1,328	23	11,078	21,312	73				23	20,649			
									Trillion Bt	u							
1960	55.2	51.0	35.3	3.2	22.4	35.8	31.9	128.6	R 0.5	7.4	NA	NA	NA	10.6	R 253.2	R 21.3	R 274.5
1965	60.8	82.6	44.6	3.7	20.7	26.5	41.7	137.2	H 0.6	9.3	NA	NA	NA	16.0	H 306.5	R 31.4	R 337.9 R 384.2
1970	42.1	97.8	45.3	4.7	19.0	24.5	50.1	143.5	R 0.6 R 0.6	11.8	NA	NA	NA		R 324.8 R 351.2	R 59.4 R 78.6	<sup>n</sup> 384.2 R 429.7
1975 1980	50.8 18.1	100.8 101.2	46.5 33.3	7.0 14.7	16.5 7.0	16.8 11.4	57.8 47.3	144.6 113.7	R 0.5	15.9 31.3	NA NA	NA NA	NA NA	38.5 53.0	R 317.7	P 112.7	R 430.4
1985	21.3	66.6	29.0	8.2	9.0	3.0	52.9	102.2	Ros	36.7	0.0	NA NA	NA NA	61.2	R 288 5	R 124 3	R 412.8
1990	23.8	88.7	31.9	8.5	5.9	4.4	70.5	121.2	R06	28.0	0.7	0.0	(s)	80.2	R 343 2	R 190 6	R 533.8
1995	26.7	107.6	35.1	15.2	6.2	3.4	76.2	136.1	H 0 8	35.6	3.2	0.0	(s)	90.7	H 400 6	R 192.1	H 592.6
2000	40.4	107.5	28.3	11.8	5.2	3.6	84.1	132.9	R 0.8 R 0.4	35.7	13.4	0.0	(s)	98.4	R 429.0	R 195.2	R 624.3
2005 2006	24.7 24.1	96.2 104.7	33.4 30.7	17.7 16.1	6.7 6.4	6.9 2.5	94.0 92.8	158.7 148.5	R 0.4	35.1 33.0	24.5 31.6	0.0 0.0	(S)	76.0 77.3	R 415.4 R 419.6	R 158.6	R 574.0
2006	25.8	115.8	29.8	15.7	7.6	2.5 5.0	92.8 91.8	148.5	R 0.3	33.0	33.6	0.0	(s) (s)	77.3 78.6	R 437.4	R 157.5 R 159.1	R 577.1 R 596.6
2008	26.1	147.2	34.8	11.0	4.7	7.6	77.8	135.8	R 0.4	32.9	40.1	0.0	(5)	81.2		R 155.6	R 619.3
2009	22.4 24.9	132.2	31.3	14.3	5.0	2.1	71.2	123.9	R <sub>0.5</sub>	32.1	52.4	0.0	(s)	67.0	R 430.4	R 123.7	R 554.1
2010	24.9	132.2 160.0	38.8	9.2	6.6	1.2	73.8	129.7	R 0.4	37.6	60.2	0.0	(s)	77.8	H 490 6	R 123.7 R 145.3	R 554.1 R 636.0
2011	24.7	159.4	39.1	8.0	6.7	1.6	73.4	128.8	R 0.4	35.9	62.5	0.0	(s)	80.6	R 492.2	R 142.6	R 634.8
2012	21.4	163.0	39.3	8.6	6.7	0.3	74.5	129.5	R 0.3	34.6	56.8	0.0	(s)	79.9	R 485.4	R 138.8	R 624.1
2013	24.1	164.4	40.8	13.8	7.3	0.1	74.7	136.6	R 0.3 R 0.1	34.5	55.1	0.0	(s)	77.6	R 492.6 R 511.9	R 130.9 R 134.7	R 623.5
2014 2015	23.2 17.5	179.2 163.4	41.6 35.4	15.7 10.4	6.1 6.0	0.1 0.1	69.7 73.5	133.2 125.4	R 0.4	37.3 33.7	60.2 62.1	0.0 0.0	(s)	78.7 73.2	R 475.7	R 116.6	R 646.6 R 592.3
2015	17.5	168.5	35.4	9.9	6.6	(s)	76.6	127.5	R04	34.3	62.4	0.0	(s) (s)	73.2 72.4	H 485 2	R 113.3	R 598.5
2017	21.9	171.0	35.4	10.4	6.6	(s) 0.1	R 65.7	R 118 2	Rns.	27.5	63.6	0.0	(s)	76.0	R 478.8	R 118.2	R 597.0
2018	19.6	169.0	39.4	11.1	6.7	0.1	R 69.5	R 126.8	R 0.3	27.9	65.0	0.0	(s) R (s) R (s)	76.6	R 485.3	R 124.6	R 609.8
2019	18.4	170.6	41.8	14.3	6.5	0.3	R 73 1	H 135 9	H n n	20.1	66.8	0.0		74.2	R 494 4	R 105 6	R 600 0
2020	13.7	147.8	39.8	12.8	6.5	0.1	R 75.7	R 135.0	R 0.2	27.2	60.3 67.1	0.0	0.1	66.8	R 451.0	R 99.2 R 108.6	R 550.2
2021 2022	14.6 16.4	160.6 161.3	36.9 37.3	11.7 9.3	6.4 6.7	0.1 0.1	R 71.6 70.4	R 126.8 123.8	R 0.2 0.2	28.4 27.2	67.1 69.0	0.0	R 0.1 0.1	72.4 70.5	R 470.1 468.5	<sup>n</sup> 108.6 99.1	R 578.8 567.7
2022	10.4	101.3	37.3	9.3	0.7	0.1	70.4	123.8	0.2	21.2	09.0	0.0	0.1	70.5	408.5	99.1	307.7

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Minnesota

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	44	(s)	1,199	3,194	27	472	697	28,176	95	33,860	0			
1965 1970	9	1 7	803 277	3,276 5,064	37 95 97	2,624 3,491	596 628 752	31,173 40,279	75 29	38,584 49,863	0			
1975	(s)	4	215	6,691	97	5,629	752	44,766	577	58,726	0			
1980 1985	` Ó	9	193 154	8,117 8,038	68 123	5,142 7,781	796 724	44,535 43,232	971 155	59,822 60,209	0			
1985 1990	Ŏ	12	154 214	8,038 9,168	123 57	5,099	724 815	43,232 45,075	0	60.427	ŏ			
1995 2000	0	19 21	129 136	12,926 16,559	134 7	9,969 13,301	778 831	53,061 60,074	0 222	76,997 91,129	0			
2005	Ŏ	22	136 102	16,559 17,508	99	12,656	831 701	63.344	222 234	94.645	25			
2006 2007	0	20 20	86 87	18,383 19,515	87 92	11,773 11,275	683 705	61,825 62,210	199 402	93,035 94,285	21 21			
2008	0	18	78	17,745 15,559	171	10,238	654 588	61,118	636	90.641	22			
2009 2010	0	13 15	141 87	15,559 16,462	115 20	9,200 8,372	588 431	59,601 59,598	159 204	85,363 85,175	22 22 22			
2011	0	15	94 94 85 74	17.602	21	8.129	415	56 786	137	83 183	19			
2012 2013	0	13 12	94 85	17,973 17,885	17 25	7,954 9,091	395 406	58,700 58,508	71 76	85,205 86,075	17 19			
2014	Ö	13	74	17,885 18,338	25 25 32 37 50	8,495	419	58,782	49	86 183	24			
2015 2016	0	10 12	84 76	17,652 19,997	32 37	8,919 9,203	452 R 460 R 421	59,629 61,118	81 113	86,848 R 91,005 R 91,210	24 24			
2017	Ŏ	13	78	19.969	50	9,495	R 421	61.197	0	R 91,210	24			
2018 2019	0	14 13	78 76	21,516 22,329	19 85	9,209 9,598	R 407 R 396	59,727 59,457	0	R 90,955 R 91,941	26 25			
2020	0	11	75	18,260 R 17,974	28	4 621	R 324 R 335	51.285	0	R 74,593 R 81,104	20			
2021 2022	0	16 17	80 83	17,974	20 106	6,458 7,327	352	54,534 53,830	0	81,418	23 20			 
						·	Tr	illion Btu		·				
1960	0.9 0.2	0.3 1.2	6.1	18.6	0.1	2.6	4.2	148.0	0.6	180.2	0.0	181.4	0.0	181.4
1965 1970	0.2 0.1	1.2 7.5	4.1 1.4	19.1 29.5	0.1 0.4	14.8 19.7	3.6 3.8	163.8 211.6	0.5 0.2	205.9 266.6	0.0 0.0	207.3 274.1	0.0 0.0	207.3 274.1
1975	(s)	3.9	1.1	39.0	0.4	31.9	4.6	235.2	3.6	315.6	0.0	319.5	0.0	319.5 331.6
1980 1985	0.0 0.0	9.1 6.3	1.0 0.8	47.3 46.8	0.3 0.5	29.1 44.1	4.8 4.4	233.9 227.1	6.1 1.0	322.5 324.6	0.0 0.0	331.6 333.0	0.0 0.0	331.6 333.0
1990	0.0	12.1 19.4	1.1	53.4 75.2	0.2 0.5	28.9	4.9 4.7	236.8 276.1	0.0	325.3 413.8	0.0	339.2	0.0	339.2 433.2
1995 2000	0.0 0.0	19.4 21.4	0.7 0.7	75.2 96.4	0.5	28.9 56.5 75.4	4.7 5.0	276.1 312.4	0.0 1.4	413.8 491.4	0.0 0.0	433.2 512.8	0.0 0.0	433.2 512.8
2005 2006	0.0	22.5	0.5	101.9	(s) 0.4 0.3	71.8 66.8	4.2 4.1	328.9	1.5 1.2	509.1 500.1	0.1	532.4 522.8	0.2 R 0.1	532.6 523.0
2006 2007	0.0 0.0	20.7 20.3	0.4 0.4	106.7 112.9	0.3 0.4	66.8 63.9	4.1 4.3	320.6 319.9	1.2 2.5	500.1 504.3	0.1 0.1	522.8 527.3	<sup>n</sup> 0.1 R 0.1	523.0 527.4
2008	0.0	18.0	0.4	102.6	0.7	58.1	4.0	312.1	4.0	481.7	0.1	502.0	R 0.1 R 0.1	502.2
2009 2010	0.0 0.0	13.0 15.6	0.7 0.4	89.9 95.1	0.4 0.1	52.2 47.5	3.6 2.6	312.1 303.4 302.0	1.0 1.3	451.1 448.9	0.1 0.1	464.2 464.6	R 0.1 R 0.1	464.3 464.8
2011	0.0	15.4	0.5	101.6	0.1	46.1	2.5	287.5	0.9	439.1	0.1	454.5	0.1	454.7
2012 2013	0.0 0.0	13.1 11.9	0.5 0.4	103.7 103.1	0.1 0.1	45.1 51.5	2.5 2.4 2.5	297.1 296.1	0.4 0.5	449.3 454.1	0.1 0.1	462.4 466.1	0.1	462.5 R 466.2
2014	0.0 0.0	13.4 10.6	0.4	105.7 101.7	0.1	48.2 50.6	2.5 2.7	297.4 301.5	0.3 0.5	454.5 457.6	0.1	468.0	0.1 R 0.1 R 0.1	468.2 R 468.4
2015 2016	0.0 0.0	10.6 12.0	0.4 0.4	101.7 115.1	0.1 0.1	50.6 52.2	28	301.5 309.0	0.5 0.7	457.6 480.3	0.1 0.1	468.3 492.3	<sup>n</sup> 0.1 R <sub>0.1</sub>	<sup>H</sup> 468.4 492.5
2017	0.0	13.8	0.4	115.0	0.2	53.8	R 2.6	309.2	0.0	481.2	0.1	495.0	R 0.1 R 0.1	495.2
2018 2019	0.0 0.0	14.7 13.9	0.4 0.4	123.9 128.6	0.1 0.3	52.2 54.4	2.5 2.4	301.9 300.4	0.0 0.0	480.9 486.5	0.1 0.1	495.7 500.5	R 0.1 R 0.1	495.9 500.7
2020	0.0	11.7	0.4	105.1 R 103.6	0.1	26.2	2.0	259.1 275.4	0.0	392.8 R 427.3	0.1	404.6	0.1	404.8
2021 2022	0.0 0.0	16.4 17.8	0.4 0.4	H 103.6 103.7	0.1 0.4	36.6 41.5	R 2.0 2.1	275.4 271.8	0.0 0.0	H 427.3 429.3	0.1 0.1	R 443.7 447.1	0.1 0.1	R 443.8 447.2
	0.0			nd since 1990 also	0.1						anded into motor gas			

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Minnesota

				Petro	leum				Biomass				<b>.</b>	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million ki	lowatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	2,433	49	156	0	239	395	0	731		0	NA	NA	90	
1965	3,857	51	156 182	0	239 278	460	143	915		0	NA	NA	111	
1970 1975	6,192 7,595	59 23	551 674	143 59	842 851	1,537 1 584	0 9,750	726 728		0	NA NA	NA NA	127 185	
1980	12.610	8	167	59 0	361	1,584 529	10,027	642		Ö	NA	NA	953	
1985 1990	11,498	1 5	49 91	0	(s)	49	11,572	829 685		0	0	0	2,668	
1990	16,916 17,282	5 8	134	727 770	0	820 904	12,139 13,243	874		0	0	(s) 57	728 8,441	
2000	18,639	10	246	1,080	1	1,327	12,960	684		Ō	Ō	725	7,892	
2005 2006	20,008 19,573	26	232	1,109 757	78 21	1,420 928	12,835 13,183	645 475		0 0	0	1,582	7,811 7,925	
2007	19,178	25 35 25	149 397	336	70	803	13,103	558		0	0	2,055 2,639	6,858	
2008	18.763	25	157	277	25	458	12.997	609		0	0	4.355	7.768	
2009 2010	17,355 16,582	24 36	122	0	5 0	128 64	12,393 13,478	675 713		0	0	5,053 4,780	7,792 7,106	
2011	16.515	28 57	122 64 52 59 68	0	0	52	11,959 11,944	629		0	0	6.703	7.710	
2012	13,384	57	59	0	Ö	52 59 68	11,944	487		0	0	8,148	6,514	
2013 2014	13,765 16,534	50 30	68 117	0	0	68 117	10,708 12,707	421 529		0	3	8,231 9,661	7,917 6,748	
2015	14,459	30 53	58	ŏ	ŏ	58	12,039	734		ŏ	š	9,750	7,921	
2016	13,686	65 49	61	0	0	61	13,861 13.904	1,078		0	10 596	9,905 11,111	8,477	
2017 2018	13,359 13,813	49 63	56 76	0	0	56 76	13,904 14,601	1,102 962		0		11,111 10,688	7,198 3,852	
2019	10,604	63 87	99 52	ŏ	ŏ	99 52	14,105	959		ŏ	1,042 1,249	10,940	7.880	
2020	8,467	86	52	0	0		14,677	934		0	1,634	11,806	2,838	
2021 2022	9,360 9,594	94 66	214 100	0	0	214 100	14,123 14,696	628 877		0	1,893 1,901	12,248 15,065	2,178 4,553	
							Trillion Btu							
1960	54.5	50.2	0.9	0.0	1.5	2.4	0.0	R 2.5	0.2	0.0	NA	NA	0.3	R 110.1
1965 1970	85.5	51.3	1.1	0.0 0.9	1.7 5.3	2.8 9.4	1.7 0.0	R 3.1	0.1 0.2	0.0 0.0	NA NA	NA NA	0.4 0.4	R 145.0 R 197.1
1975	125.5 136.3	59.1 22.3	3.2 3.9	0.9	5.4	9.6	107.4	R 2.5 R 2.5	(s)	0.0	NA NA	NA NA	0.6	H 278.8
1980	221 4	8.0	1.0	0.0	2.3	3.2	109.4	R 2.2 R 2.8	(s)	0.0	NA	NA	3.3 9.1	R 347 5
1985 1990	200.6 298.5	1.3 5.4	0.3 0.5	0.0 4.4	(s) (s)	0.3 4.9	122.9 128.5	R 2.8	(s) 7.7	0.0 0.0	0.0 0.0	0.0	9.1 2.5	R 337.1 R 449.8
1995	305.9	8.4	0.8	4.6	Ô.Ó	5.4	139.1	R 2.3 R 3.0	8.6	0.0	0.0	R (s)	28.8	R 499.5 R 527.0
2000	333.3	10.1	1.4	6.5	(s)	7.9	135.2	R 2.3 R 2.2 R 1.6	8.8	0.0	0.0	R 2.5 R 5.4	26.9	<sup>R</sup> 527.0 R 564.9
2005 2006	353.0 345.1	26.3 25.1	1.4 0.9	6.3 4.3	0.5 0.1	8.2 5.3 4.7	133.9 137.6	R 1.6	9.3 8.9	0.0 0.0	0.0 0.0	R 7.0	26.7 27.0	R 557 6
2007	345.1 339.2	26.3 25.1 35.1 25.2	2.3	1.9	0.4	4.7	137.4	H 1 A	17.2	0.0	0.0	Ron	23.4	R 557.6 R 567.9
2008 2009	332.2 305.3	25.2	0.9	1.6 0.0	0.2	2.6 0.7	135.8	R 2.1 R 2.3 R 2.4 R 2.1	17.7 20.9	0.0 0.0	0.0 0.0	R 14.9	26.5 26.6	R 557.1
2010	289.7	23.9 36.4	0.7 0.4	0.0	(s) 0.0	0.7	129.6 140.9	R 2.4	24.3	0.0	0.0	R 17.2 R 16.3	24.2	R 526.6 R 534.7
2011	290.2	28.5	0.3	0.0	0.0	0.3	125.1	R 2.1	21.4	0.0	0.0	H 22 Q	26.3	R 516.9 R 496.2
2012 2013	236.4 243.5	58.3 50.9	0.3 0.4	0.0 0.0	0.0 0.0	0.3 0.4	125.2 111.9	R 1.7 R 1.4	24.2 20.0	0.0 0.0	0.0 (s)	R 27.8 R 28.1	22.2 27.0	H 496.2 R 483.3
2013	289.7	31.7	0.4	0.0	0.0	0.4	132,9	R 1.8 R 2.5	20.0	0.0	(S) (S)	R 33.0	23.0	R 534.9
2015	289.7 253.9	31.7 55.9	0.7 0.3	0.0	0.0	0.3	132.9 125.9	R 2.5	22.1 22.5	0.0	(2)	R 33.0 R 33.3	23.0 27.0	R 534.9 R 521.3
2016 2017	241.5 235.5	68.4 51.6	0.3 0.3	0.0	0.0 0.0	0.3	145.0 145.4	R 3.7 R 3.8	22.8 22.7	0.0	R (s) R 2.0 R 3.6	R 33.8	28.9 24.6	H 544 4
2017	235.5 241.8	51.6 67.6	0.3 0.4	0.0 0.0	0.0	0.3 0.4	145.4 152.7	H33	17.8	0.0 0.0	R 3.6	R 37.9 R 36.5	24.6 13.1	R 523.8 R 536.7
2019	186.6	94.1	0.6	0.0	0.0	0.6	147.3	R 3.3 R 3.2	9.3	0.0	R <u>4</u> 3	H 37 3	26.9	H 500 6
2020 2021	149.0 164.3	93.0 101.6	0.3 1.2	0.0 0.0	0.0 0.0	0.3 1.2	153.3 R 147.3	H 3.2 R 2.1	8.8 8.5	0.0 0.0	R 5.6 R 6.5	R 40.3 R 41.8	9.7 7.4	R 463.1 R 480.8
2021	168.1	70.8	0.6	0.0	0.0	0.6	153.3	3.0	8.9	0.0	6.5	51.4	15.5	478.1
		-												

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Mississippi

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	's	Thousan	nd barrels
1960	30 40 549 559 581	182 244	2,375 2,796	4,220 4,720	1,465	16,096	311 489 703 1,122 4,292	2,950 5,232	27,417	0	0	0	NA	NA
1960 1965 1970 1971 1972	40	244	2,796	4,720	1,465 1,460 1,614 1,669	16,096 18,539 24,316 25,371 27,539 28,248 28,176 27,811 28,957 30,566 30,766 29,424 26,781 27,658 26,436 26,691 26,900 27,586 28,548 29,365 29,479 29,023 29,080 29,794 30,535 31,907 32,868 34,017 34,178 35,393 36,708 38,422 37,193 36,481 38,010 38,676 39,266 39,765 40,097	489	5,232	27,417 33,237 51,951 54,730 62,166	0	0	0	NA NA	NA NA
1970	549 559	360 378	5,991 7,225 7,610	8,645 8,641 9,658	1,614	25,371	1.122	10,682 10,704 11,467	54,730	0	0	0	NA NA	NA NA
1972	581	378	7,610	9,658	1.600	27,539	4,292	11,467	62,166	Ö	Ö	Ö	NA	NA NA
1973 1974 1975 1976 1977	1,247 1,506	314	9,199 9,822	9,414 9,065 8,180 8,662 9,150 8,217 5,972	1,513 1,538	28,248	7,663 10,748	12,701 10,407 9,813 9,713	68,738 69,756 69,194 76,559 86,328 91,514 80,447 68,793 63,665 57,175 58,088 61,037 63,766 69,052 66,838 69,182 70,623	0	0	0	NA	NA
1974 1975	1,506 1,440	276 230	9,822 9,852	9,065 8 180	1,538 1,475	28,176 27,811	10,748 12,063	10,407 9.813	69,756 69.194	0	0	0	NA NA	NA NA
1976	1,825	230 199 198	12,009	8.662	1,425	28.957	15.794	9.713	76.559	0	Ö	0	NA NA	NA NA
1977	1 690	198	14 206	9,150	1 498	30,566	20 722	10,188	86,328	0	0	0	NA	NA
1978 1979	1,732 2,555	204	15,503	8,217	1,361 1,451	30,766	24,359 22,344	10,188 11,308 10,221	91,514	0	0	0	NA	NA NA
1979	2,555	204 254 264 243	15,503 11,034 9,648 13,444 11,830	5,972 5,694	1,451	29,424 26,781	16,010	9 130	68 793	0	0	0	NA NA	NA NA
1980 1981 1982 1983 1984 1985 1986 1987	3,127 3,446 4,158 3,962 4,297	243	13,444	5,694 4,541 4,481 4,507 4,524 4,672 3,663 3,694 3,927 4,915 7,093 6,103 6,203 6,214 6,505 6,810 8,945 3,091 2,787 5,312 6,545 7,526 5,647 6,672 3,872	1,530 1,734	27,658	10 404	9,130 5,883	63,665	Ö	Ŏ	Ö	0	NA
1982	4,158	269	11,830	4,481	3,336 2,963 2,334	26,436	5,461 2,361 2,134	5 949	57,494	0	0	0	0	NA
1983	3,962 4 207	238 269	13,152 12,257	4,507 4,524	2,963	26,691	2,361	7,012 9,027	56,685 57 175	0 165	0	0	0	NA NA
1985	4.519	209	13,461	4,524	4.111	27,586	1.319	6.940	58.088	4.332	0	0	0	NA NA
1986	4,454 4,846	227 215	13,461 12,779	3,663	4,111 4,914	28,548	1,319 4,461 2,051	6,940 6,671	61,037	4.087	Ö	Ö	Ō	NA NA NA
1987	4,846	209	13 294	3,694	7 657	29,365	2,051	7 705	63,766	7 717	0	0	0	NA
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	5,136 3,831	213	14,894 14,108	3,927 4,915	8,006 6,567	29,479	3,547 3,550 3,658 4,754	9,200 8,676	69,052 66,838	9,582 7,826 7,422 9,133	0	0	0	NA NA
1990	4.159	254	13.221	7.093	6 922	29.080	3,658	9.209	69.182	7,020	0	0	0	NΑ
1991	4,159 3,812	226 254 250	13,221 13,443 13,174 13,312 14,250	6,103	8,080	29,794	4,754	9,209 8,450	70,623	9,133	0	0	0	NA
1992	3,485 4,030 4,285	239 230 258	13,174	6,203	11,006	30,535	3 401	9 207	73,526 77,321 74,099 73,468 78,189	8 1 / 4	0	0	0	NA NA
1993	4,030 4 285	230	13,312	6,214 6,505	8,328 6,750	31,907	8,953 5,388	8,606 8,339	77,321	7,904 9,615	0	0	139 98	NA NA
1995	4,606	288	14,250	6.810	7,573	34.017	2.607	8.397	73,468	8.013	0	0	55	NΔ
1996	5,791	288 269	14,065 14,851	8,945	7,573 7,157	34,178	2,607 3,491	8,397 9,568	78,189	8,013 9,225	0	0	6	NA NA
1997	6,273	256	16,654	3,091	7,916	35,393	5,317	10,009	78,379	10,813	0	0	0	NA NA
1990	5,897 6,206	241 307	16,937 17,510	2,707 5,312	7,690 9,658	36,706	9,507 5,843	9,391	86.340	9,191 8,428	0	0	0	NA NA
2000	6,386	301	16,517	6,545	9,004	37,193	5,906	10,009 9,391 9,596 8,648 8,722	83,813	10,695	ő	ő	0	NA
2001	6,386 8,488	301 333 344	16,517 16,995	7,526	9,004 8,411	36,481	5,906 9,883	8,722	88,018	10,695 9,924	0	0	0	3
2002	8,018 9,691	344	18,228	5,647	7,223 9,193	38,010	1,368 3,592 6,448		78,379 83,019 86,340 83,813 88,018 79,321 88,572 87,124 82,987 85,698	10,059	0	0	0	5 4
2002 2003 2004 2005 2006	10.110	266 282	20,205 21,131 20,143 21,407	3.872	6.119	39,206	6.448	10,234 10,347 10,697 12,065	87.124	10,902 10,233	0	0	0	9
2005	9,882 10,528	302 307	20,143	3,198	5,902 7,097	39,765	3 282	10,697	82,987	10,078 10,419	Ö	ő	34	29
2006	10,528	307	21,407	3,614	7,097	40,097	1,418	12,065	85,698	10,419	0	0	32	83
2007 2008 2009 2010 2011	10,043 9,632 8,533	364 355	22,909 21,285 20,441	3,080	4,366 4,104 4,853 1,294 1,139	40,534 30,371	1,449	12,042 9,742 8,479	84,380 78,552	9,359 9,397 10,999	0	0	99 812	113
2009	8.533	355 364	20.441	3,197	4.853	37.856	887 779	8,479	75,606	10.999	Ö	0	2 025	103
2010	8,713	439	19,719 19,237	3,148	1,294	39,402	912	9,080 9,473	73,554	9,643 10,337	0	0	4,182	83
2011	6.317	439 434 494 421	19,237	3,198 3,614 3,080 3,162 3,197 3,148 2,832 2,259 2,623 3,002 2,522 2,490 2,286	1,139	40,037 40,534 39,371 37,856 39,402 37,853 39,007 38,721 40,145 40,977 41,727 40,796	912 953 1,094 709 145 493 578 629	9,473	84,380 78,552 75,606 73,554 71,488 72,321 71,248 72,239 74,071 R 75,745 R 74,993 R 74,104 R 74,824 R 71,851 R 74,625	10,337	0	0	4,182 3,911 3,907 3,988 4,170 4,270 4,324 4,246	29 83 113 97 103 83 283 360 638 500
2012	5,354 5,989	494 421	19,966	2,259	1,172 1,330	39,007	1,094 709	8,824 8,487	72,321 71,248	7,296 10,865	U	0	3,907	838 360
2012 2013 2014 2015 2016	6,660	428	19,966 19,379 19,886 20,617	3,002	1,221 1,147	40,145	145	7,841	72,239	7,296 10,865 10,252 11,715 5,897 7,365	0	0	4,170	500
2015	4.941	521	20,617	2,522	1,147	40,977	493	8,315	74,071	11,715	Ó	Ö	4,270	614
2016 2017	4,522 3,865	521 544 527	21,155 21,346 21,823 21,748	2,490	1,105 1,127	41,727	578	n 8,690 R e enc	n 75,745 B 74,000	5,897	0	0	4,324	614 944 816
2017	3,005 4,506	577	∠1,346 21,823	∠,∠db 2 608	1,127	40,796 39,657	214	R 8 748	R 74,993	7,305 6,919	0	0	4,∠46 3,878	867
2018 2019	4,506 3,852	567	21,748	2,733	1,054 1,148	39,657 41,002	246	R 7,947	R 74,824	11,033	ő	Ö	3,878 3,899	867 R 780
2020 2021	4.064	593	21,221 R 20,745	2,513	1.077	38,366	176	R 8,499	R 71,851	6,919 11,033 6,471 11,772	0	0	3,527	799
2021 2022	4,848	593 561 605	n 20,745	2,608 2,733 2,513 2,762 2,773	1,122 1,306	38,366 40,646 39,889	176 364 373	0,467 7,841 8,315 R 8,690 R 8,809 R 8,748 R 7,947 R 8,499 R 8,986 8,918	<sup>H</sup> 74,625 74,400	11,772	0	0	3,527 3,899 4,155	799 R 539 487
2022	4,984	CUO	21,141	2,773	1,306	39,889	3/3	8,918	74,400	8,600	U	0	4,155	48/

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Mississippi (trillion Btu)

					Fossil	l fuels						Fossil fuels	
						Petroleum						(as commingled)	T
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	0.8	187.9	13.8	16.1	7.8	84.6	2.0	17.9	142.3	330.9	187.9	13.8	84.6
1965 1970	1.0	250.6 369.4	16.3 34.9	18.1 32.8 32.8	7.8 8.7	97 4	3.1	31.6	174.3 272.7 289.0	425.9 655.3	250.6	16.3	97.4 127.7
1970	13.2 13.5	369.4	34.9	32.8	8.7	127.7	4.4	64.1	272.7	655.3	369.4 387.8	34.9	127.7
1971	13.5	387.8	42.1	32.8	9.0	133.3	7.1	64.8	289.0	690.3	387.8	42.1	133.3
1972	14.0 29.5	387.4	44.3	36.5 35.5 34.1	8.7 8.2	144.7 148.4	27.0 48.2	69.5	330.7 370.6	732.1 721.6	387.4 321.5	44.3 53.6 57.2	144.7 148.4
1973	29.5	321.5	53.6	35.5	8.2	148.4	48.2	76.7	370.6	721.6	321.5	53.6	148.4
1974	34.6	283.1	57.2	34.1	8.4	148.0	67.6	63.6	378.8	696.5	283.1	57.2	148.0
1975	33.4 42.5	235.3	57.4	30.6 32.3	8.0	146.1	75.8	59.9 59.2	377.8 420.7	646.5	235.3 203.7	57.4	146.1
1976 1977	42.5 38.7	203.7 202.6	69.9 82.7	32.3 33.9	7.8 8.2	152.1 160.6	99.3 130.3	59.2 61.8	420.7 477.5	666.9 718.8	203.7	69.9 82.7	152.1 160.6
1978	41.0	208.0	90.3	30.5	7.4	161.6	150.5	68.7	477.5 511.7	760.7	202.6 208.0	90.3	161.6
1976	59.8	260.5	64.3	21.9	7.4 7.9	154.6	153.1 140.5 100.7	62.7	451 Q	772.2	260.5	64.3	154.6
1980	75.0	270.9	56.2	20.9	8.3	154.6 140.7	100.7	55.8	451.9 382.6 352.4	728.5	270.9	56.2	140.7
1981	82.9	249.1	78.3	16.8	9.5	145.3	65.4	37.2	352.4	684.4	249.1	78.3	145.3
1982	100.5	276.7	68.9	16.5	18.5	145.3 138.9 140.2	34.3	37.3	314.4	691.6	276.7	68.9	138.9
1982 1983	100.5 96.1	244.3	68.9 76.6	16.5 16.7	16.4	140.2	14.8	37.3 43.4	308.3	691.6 648.6	276.7 244.3	68.9 76.6	138.9 140.2
1984	103.9 109.4 108.8	276.6	71.4	16.4	12.8	141.3 144.9 150.0	13.4 8.3 28.0	56.7 43.7 42.3	312.0 315.3 335.8	692 5	276.6 233.0 220.2	71.4	141.3 144.9 150.0
1985 1986	109.4	233.0 220.2	78.4	17.0 13.5	22.9 27.5	144.9	8.3	43.7	315.3	657.6	233.0	78.4 74.4	144.9
1986	108.8	220.2	74.4	13.5	27.5	150.0	28.0	42.3	335.8	664.8	220.2	74.4	150.0
1987	122.4	212.3	77.4	13.8	43.1	154.3 154.9 152.5	12.9	48.2	349.7 380.7	684.4	212.3	77.4	154.3
1988	129.6	216.4	86.8	14.6	45.0	154.9	22.3	57.2	380.7	726.7	216.4	86.8	154.9 152.5
1989	95.6	232.4	82.2	18.2	36.9	152.5	22.3	53.3	365.4	693.4	232.4	82.2	152.5
1990 1991	103.9 95.3	261.9 257.0	77.0 78.3	25.5 21.9	39.0 45.5	152.8 156.5	23.0 29.9	56.8 52.6	374.0 384.7 399.5	739.9 737.0	261.9 257.0	77.0 78.3	152.8 156.5
1991	95.3 86.8	250.7	76.3 76.7	21.9	62.2	160.4	29.9	56.5	304.7	737.0	257.0 250.7	76.7	160.4
1993	99.3	235.3	77.5	22.3	47.0	166.0	56.3	53.0	422.3	757.0 756.9	235.3	70.7 77.5	166.5
1994	97.3	266.2	82.9	22.3 22.4 23.6	38.2	171.0	33.9	51.4	401.1	764.6	266.2	82.9	171 4
1995	103.8	295.4	81.9	24.5	42.9	176.8	16.4	52.0	401.1 394.5 417.8	793.6	295.4	81.9	177.0 178.1
1995 1996	103.8 127.8	295.4 277.5	86.4	24.5 31.9	42.9 40.6	176.8 178.1	16.4 21.9	52.0 58.9	417.8	793.6 823.1	295.4 277.5	86.4	178.1
1997	132 2	264.2	96.9	11.7	44.9	184 2	33 4	61.8	433.0	829 4	264.2	96.9	184 2
1998 1999	125.9 137.6	252.4 317.8	98.6	10.6	43.6 54.8	191.0 199.9	59.8 36.7	58.3 59.5	461.8 472.2	840.1	252.4 317.8	98.6 101.9	191.0 199.9
1999	137.6	317.8	101.9	19.5	54.8	199.9	36.7	59.5	472.2	927.6	317.8	101.9	199.9
2000	147.5 198.3	312.1 340.9	96.1 98.9	24.4 27.8	51.1	193.4 189.7	37.1 62.1	53.7 53.4	455.8 479.7 428.3	915.4	312.1 340.9	96.1 98.9	193.4 189.7
2001	198.3	340.9	98.9	27.8	47.7	189.7	62.1	53.4	479.7	1,018.8	340.9	98.9	189.7
2002	154.3	354.6	106.1	20.8	41.0	197.6	8.6	54.2	428.3	937.2	354.6	106.1	197.6
2003	178.9	275.1	117.6	24.1	52.1 34.7	201.0 203.7	22.6	63.1	480.5 480.4	934.6	275.1 290.5	117.6	201.0
2004 2005	185.0 176.3	290.5 310.7	122.9 117.2	14.4 11.9	34.7 33.5	203.7 206.3	40.5	64.2 66.4	480.4 455.9	955.9 942.9	290.5 310.7	122.9 117.2	203.7 206.5
2005	190.1	315.9	124.2	13.3	40.2	207.8	20.6 8.9	75.1	400.9 460.6	975.6	315.9	124.2	200.5
2006 2007	185.1	375.0	132.5	13.3	40.2 24.8	207.8	8.9 9.1	75.1 75.1	469.6 461.0	1,021.0	375.0	124.2 132.5	207.9
2007	177.2	364.2	123.0	11.9	23.3	198 2	5.1 5.6	60.4	422.4	963.8	364.2	102.0 123.0	201.0
2009	141.7	364.2 371.2	123.0 116.9	12.0	27.5	198.2 185.6	5.6 4.9	52.2	422.4 399.2	912.1	364.2 371.2	123.0 118.1	192.7
2010	148.5	444.9	113.1	12.1	7.3	185.2	5.7	55.8	379.3	972.6	444.9	113.9	199.7
2011	148.5 107.5	444.9 437.9	113.1 109.2	10.9	7.3 6.5	185.2 178.1	5.7 6.0	58.4	379.3 369.1	972.6 914.5	444.9 437.9	113.9 111.0	191.6
2012	82.5	499.9	113.3	8.7	6.6	183 9	6.9 4.5 0.9	54 1	373 4	955.8	499 9	115.1	197.5
2013	97.8	426.9	108.5	10.1 11.5	7.5 6.9	182.1 188.6	4.5	52.0 48.1	364.6 367.5	889.3	426.9 439.6	111.7	195.9 203.1
2014	116.5	439.6	111.5	11.5	6.9	188.6	0.9	48.1	367.5	923.6	439.6	114.6	203.1
2015	71.6	537.0	115.2	9.7	6.5	192.4 195.9	3.1 3.6	51.1	378.0	986.6	537.0 561.3 543.7	118.8 121.8	207.2 210.9
2016	61.2	561.3	116.7	9.6	6.3	195.9	3.6	54.9 55.6	387.0	1,009.5	561.3	121.8	210.9
2017	53.8	543.7	118.2	8.8	6.4	191.4	4.0	55.6	384.3	981.8	543.7	122.9	206.1
2018	60.0	591.9	121.4	10.0	6.0	186.9	1.3 1.5	55.3 49.8	<sup>-</sup> 380.9	R 1,032.8	591.9 583.8	125.7 125.2	200.4
2019	51.0	583.8	121.2	10.5	6.5	193.6	1.5	49.8	383.1 B 000.7	1,017.9	583.8	125.2	207.1
2020	54.2 64.4	610.3	117.9 R 117.7	9.7	6.1	181.6 191.7	1.1	53.3	11369.7 B 202.5	1,034.1 R 1,024.9	610.3 576.9	122.1 R 119.6	193.8 205.3
2021 2022	64.4 66.2	576.9 622.2	120.0	10.6 10.7	6.4 7.4	191.7 186.9	2.3 2.3	56.5 56.2	378.0 387.0 384.3 8 380.9 383.1 8 369.7 8 383.5 382.0	1,024.9	576.9 622.2	119.6 121.9	205.3 201.4
2022	00.2	022.2	120.0	10.7	7.4	100.9	2.3	50.2	302.0	1,070.4	022.2	121.9	201.4

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Mississippi (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0 0.0	0.0 0.0	46.6 37.8	NA NA	NA NA	NA NA	NA NA	46.6 37.8	0.0 0.0	NA NA	NA NA	46.6 37.8	R 19.1 R 34.8	0.0 0.0	R 396.6
1970	0.0	0.0	33.5 32.8	NA	NA	NA	NA	33.5	0.0	NA	NA	33.5	R 39.1 R 42.2	0.0	R 498.5 R 727.9
1971	0.0	0.0	32.8	NA	NA	NA	NA	32.8	0.0	NA	NA	32.8	R 42.2	0.0	H 765.3
1972	0.0 0.0	0.0 0.0	32.4	NA NA	NA NA	NA NA	NA NA	32.4 32.2	0.0 0.0	NA NA	NA NA	32.4	R 45.1	0.0 0.0	R 809.6
1973 1974	0.0	0.0	32.2 31.3	NA NA	NA NA	NA NA	NA NA	31.3	0.0	NA NA	NA NA	32.2 31.3	R 72.7 R 65.7 R 71.4	0.0	R 826.4 R 793.5 R 749.0 R 757.3
1975	0.0	0.0	31.2	NA	NA	NA	NA	31.2	0.0	NA	NA	31.2	R 71.4	0.0	R 749.0
1976	0.0	0.0	34.8	NA	NA	NA	NA	34.8	0.0	NA	NA	34.8	R 55.6 R 46.9	0.0	R 757.3
1977 1978	0.0 0.0	0.0 0.0	36.2 37.6	NA NA	NA NA	NA NA	NA NA	36.2 37.6	0.0 0.0	NA NA	NA NA	36.2 37.6	7 46.9 B 20.2	0.0 0.0	R 801.9 R 827.5
1979	0.0	0.0	37.5	NA NA	NA NA	NA NA	NA NA	37.5	0.0	NA NA	NA NA	37.5	R 29.2 R 46.7	0.0	R 856 4
1980	0.0	0.0	38.1	NA	NA	NA	NA	38.1	0.0	NA	NA	38.1	R 45.4 P 71.9	0.0	R 856.4 R 812.1 R 797.4 R 789.9 R 793.4 R 833.4
1981	0.0	0.0	41.1	0.0	NA	NA	0.0	41.1	0.0	NA	NA	41.1	R 71.9	0.0	R 797.4
1982 1983	0.0 0.0	0.0	44.6 45.1	0.0 0.0	NA NA	NA NA	0.0 0.0	44.6 45.1	0.0 0.0	NA NA	NA 0.0	44.6 45.1	R 53.6 R 99.7	0.0 0.0	n 789.9
1984	1.8	0.0	50.5	0.0	NA NA	NA NA	0.0	50.5	0.0	0.0	0.0	50.5	R 88.6	0.0	R 833 4
1985	46.0	0.0	50.9	0.0	NA	NA	0.0	50.9	0.0	0.0	0.0	50.9	H 59 9	0.0	''814.5
1986	43.2	0.0	49.2	0.0	NA	NA	0.0	49.2	0.0	0.0	0.0	49.2	R 65.4 R 38.2	0.0	R 822.6 R 848.6
1987 1988	80.6	0.0 0.0	45.4 47.4	0.0 0.0	NA NA	NA NA	0.0 0.0	45.4 47.4	0.0 0.0	0.0 0.0	0.0	45.4 47.4	R 24.3	0.0 0.0	R 900.0
1989	101.6 82.8	0.0	76.4	0.0	NA NA	NA NA	0.0	47.4 76.4	(s)	(s)	0.0 0.0	76.4	Rgag	0.0	R 936.8
1990	78.5	0.0	84.8	0.0	NA	NA	0.0	76.4 84.8	(s)	(s)	0.0	84.9	n 111 8	0.0	R 936.8 R 1,015.1 R 1,037.0 R 1,062.1
1991	95.7	0.0	89.5	0.0	NA	NA	0.0	89.5	(s) (s)	(s)	0.0	89.5	R 114.8 R 148.8	0.0	R 1,037.0
1992	85.6	0.0	90.8	0.0	NA	NA	0.0	90.8	(s)	(s)	0.0	90.8	H 148.8	0.0	H 1,062.1
1993 1994	83.0 100.5	0.0 0.0	92.4 94.8	0.5 0.3	NA NA	NA NA	0.0 0.0	92.9 95.1	0.1 0.1	(S)	0.0 0.0	92.9 95.2	R 129.1	0.0 0.0	R 1,072.0 R 1,089.4
1995	84.2	0.0	94.1	0.2	NA	NA	0.0	94.3	0.1	(s)	0.0	94.4	R 139.1 R 129.2 R 142.8 R 131.6 R 111.0	0.0	R 1,115.0 R 1,137.4
1996	96.9	0.0	85.6	(s) 0.0	NA	NA	0.0	85.6	0.2	(s)	0.0	85.8	R 131.6	0.0	R 1,137.4
1997 1998	113.5 96.4	0.0 0.0	84.1 63.9	0.0	NA NA	NA	0.0	84.1 63.9	0.2 0.2	(s)	0.0 0.0	84.3	H 111.0 R 135.4	0.0 0.0	R 1,138.1 R 1,136.1
1998	96.4 88.1	0.0	63.9 64.9	0.0 0.0	NA NA	NA NA	0.0 0.0	63.9 64.9	0.2	(S)	0.0	64.2 65.1	R 149 1	0.0	R 1 220 0
2000	111.5	0.0	75.1	0.0	ŇĀ	NA	0.0	75.1	0.3	(s)	0.0	65.1 75.4	R 149.1 R 139.9	0.0	R 1,229.9 R 1,242.2
2001	103.6	0.0	55.8	0.0	(s)	NA	0.0	55.8	0.3	(s)	0.0	56.1	-45.9 R 78.5	0.0	1,132.7 R 1,170.4
2002	105.0	0.0	49.3 44.9	0.0	(s)	NA	0.0	49.3	0.3	(s)	0.0	49.7	H 78.5	0.0	H 1,170.4
2003 2004	113.6 106.7	0.0 0.0	60.8	0.0 0.0	(s) (s)	NA NA	0.0 0.0	44.9 60.8	0.4 0.5	(S)	0.0 0.0	45.4 61.3	R 82 1	0.0 0.0	R 1,201.6 R 1,206.1
2005	105.2	0.0	62 1	0.1	ÓŹ	NA	0.0	62 4	0.5	(s)	0.0	63.0	R 108.0 R 82.1 R 62.3 R 61.3 R 39.8	0.0	R 1,173.3
2006	108.7	0.0	62.5	0.1	0.4	NA	(s)	63.0	0.6	(s)	0.0	63.6	R 61.3	0.0	R 1,209.2
2007	98.2	0.0	63.0	0.3	0.6 0.5	NA NA	(s) (s) 0.3	63.9 49.8	0.6	(s)	0.0	64.6	<sup>H</sup> 39.8 <sup>R</sup> 51.2	0.0	R 1,173.3 R 1,209.2 R 1,223.5 R 1,163.6
2008 2009	98.2 115.0	0.0 0.0	46.1 45.5	2.8 7.0	0.5	NA NA	0.3	49.8 56.1	0.7 0.8	(s) (s)	0.0	50.4 56.8	R 25 Q	0.0 0.0	R 1 100 0
2010	100.8	0.0	56.5	14.5	0.4	NA	3.0 2.5	56.1 73.9	0.9	(s)	0.0 0.0	74.8	R 25.9 _R 5.0	0.0	R 1,109.9 R 1,153.2
2011	108.2	0.0	57.1	13.6	1.5	0.0	2.3	74.5	1.1	(s)	0.0	75.6	R 28.0 -7.9 R 10.5	0.0	H 1.126.2
2012	76.5	0.0	70.1	13.6	1.9	0.0	2.0	87.6	1.0	(s)	0.0	88.5	-7.9 B 10.5	0.0	1,112.9 R 1,090.2
2013 2014	113.5 107.2	0.0 0.0	58.6 59.9	13.8 14.5	3.4 2.7	0.0 0.0	0.1 0.1	75.9 77.1	1.0 1.0	(S) (S)	0.0 0.0	76.9 R 78.0	-69	0.0 0.0	1,102.0
2015	122.5	0.0	53.5	14.8	3.3	0.0	1.6	73.2	1.0	(c)	0.0	7/1 2	-98.5	0.0	1,084.8
2016	61.7	0.0	53.1	15.0	5.1	0.0	2.7	75.9	1.0	R (s) R 0.3 R 1.2	0.0	R 76 9	-98.5 -76.4 R -62.5 R -72.5	0.0	1,084.8 R 1,071.7
2017	77.0	0.0	48.1	14.8	4.4	0.0	2.8	70.0	1.0	H 0.3	0.0	H 71.3	H -62.5	0.0	H 1.067.7
2018	72.3 115.2	0.0	49.1	13.5 13.6	4.6	0.0 0.0	2.8 0.1	70.0 66.2	1.0 1.0	" 1.2 R 1 2	0.0 0.0	R 72.1 R 68.3	R -109 1	0.0 0.0	R 1,104.8
2019 2020	67.6	0.0 0.0	48.3 B 47.0	12.3	4.2 4.3	0.0	(s)	66.2 R 63.6	1.0	R 1.2 R 1.5	0.0	R 66.1	R -109.1 R -132.3	0.0	R 1,092.3 R 1,035.6
2021	R 122.8	0.0	H 47.4	13.6	2.9	0.0	(s)	H 63.8	1.0	H 1.5	0.0	R 66.3	H -133.1	0.0	H 1,080.8
2022	89.7	0.0	45.4	14.5	2.6	0.0	(s)	62.5	1.0	1.8	0.0	65.3	-125.6	0.0	1,099.8

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Mississippi

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet				Thousand barrels	S	'		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	22	147	2,374	4,220	1,465	16,096	247	2,950	27,353	0					5,371			
1970	49	261	5,986	8,645	1,614	24,316	288	10,682	51,531	0					15,000			
1980	55	168	9,578	5,694	1,530	26,781	10,932	9,130	63,645	0					23,258			
1990 2000	271 155	188 200	13,171 16,465	7,093 6,545	6,922 9,004	29,080 37,193	2,479 1,373	9,209 8,648	67,954 79,228	0					32,127 45,336			
2005	121	166	20,053	3,198	5,902	37,193	894	10,697	79,228 80,509	0					45,336 45,901			
2005	150	167	21,379	3,614	7,097	40,097	769	12,065	85,020	0					46,936			
2007	148	181	22,840	3,080	4,366	40,534	799	12,042	83,661	0					48,153			
2008	134	188	21,245	3,162	4,104	39,371	777	9,742	78,402	0					47,721			
2009	110	181	20,418	3,197	4,853	37,856	767	8,479	75,571	0					46,049			
2010	124	203	19,697	3,148	1,294	39,402	796	9,080	73,417	0					49,687			
2011	114	189	19,207	2,832	1,139	37,853	919	9,473	71,423	0					49,338			
2012 2013	113 123	203 186	19,940 19,356	2,259 2,623	1,172 1,330	39,007 38,721	1,094 709	8,824 8,487	72,295 71,225	0					48,388 48,782			
2013	110	191	19,855	3,002	1,221	40,145	145	7,841	72,209	0					49,409			
2015	111	191	20,588	2,522	1,147	40,977	493	8,315	74,042	0					48,692			
2016	0	177	21,123	2,490	1,105	41,727	578	R 8,690	R 75,713	0					49,050			
2017	0	186	21,322	2,286	1,127	40,796	629	R 8,809	R 74,969	0					47,829			
2018	0	209	21,776	2,608	1,054	39,657	214	R 8,748	R 74,057	0					50,390			
2019	19	206	21,724	2,733	1,148	41,002	246	R 7,947	R 74,800	0					48,951			
2020	76	202	21,210	2,513	1,077	38,366	176	R 8,499	R 71,840	0					46,482			
2021 2022	74 69	208 226	R 20,733 21,128	2,762 2,773	1,122 1,306	40,646 39,889	364 373	R 8,986 8.918	R 74,613 74,387	0					48,015 48,980			
2022	09	220	21,120	2,773	1,300	39,009	3/3	0,910	,						40,300			
									Trillion	Btu								
1960	0.6	152.3	13.8	16.1	7.8	84.6	1.6	17.9	141.9	0.0	46.6		NA	NA	18.3		_R 37.0	R 396.6
1970	1.2	267.2	34.9	32.8	8.7	127.7	1.8	64.1	270.0	0.0	33.5		NA	NA	51.2		R 104.8	R 727.9
1980	1.3	174.2	55.8	20.9	8.3	140.7	68.7	55.8	350.3	0.0	38.1	NA	NA	NA	79.4	643.2	R 168.8	R 812.1
1990 2000	6.3 3.7	194.5 208.6	76.7 95.8	25.5 24.4	39.0 51.1	152.8 193.4	15.6 8.6	56.8 53.7	366.3 427.0	0.0	84.8 75.1	0.0	(s) 0.3	(s)	109.6 154.7	761.7 869.4	R 253.5 R 372.8	R 1,015.1 R 1,242.2
2005	2.9	170.9	116.7	11.9	33.5	206.5	5.6	66.4	440.5	0.0	62.1	0.0	0.5	(s) (s)	156.6	833.7	R 339.7	R 1,173.3
2005	3.6	170.9	124.1	13.3	40.2	207.9	4.8	75.1	465.5	0.0	62.5		0.6	(s)	160.1	864.2	R 345.0	R 1,209.2
2007	3.5	186.3	132.1	11.4	24.8	208.4	5.0	75.1	456.8	0.0	63.0		0.6	(s)	164.3		R 348.3	R 1,223.5
2008	3.1	192.8	122.8	11.9	23.3	201.0	4.9	60.4	424.3	0.0	46.1	0.3	0.7	(s)	162.8	830.7	R 332.9	R 1,163.6
2009	2.6	185.0	118.0	12.0	27.5	192.7	4.8	52.2	407.2	0.0	45.5		0.8	(s)	157.1	801.2	R 309.3	R 1,110.5
2010	2.8	207.5	113.8	12.1	7.3	199.7	5.0	55.8	393.7	0.0	56.5			(s)	169.5		R 320.2	R 1,153.5
2011	2.6	192.6	110.8	10.9	6.5	191.6	5.8	58.4	384.0	0.0	57.1	2.3	1.1	(s)	168.3		R 318.4	R 1,126.4
2012	2.6	205.8	115.0	8.7	6.6	197.5	6.9	54.1	388.7	0.0	70.0		1.0	(s)	165.1	835.3	277.6 B 224.0	1,112.8
2013 2014	2.8 2.5	188.7 196.4	111.6 114.4	10.1 11.5	7.5 6.9	195.9 203.1	4.5 0.9	52.0 48.1	381.5 384.9	0.0	58.5 59.7	0.1	1.0 1.0	(s)	166.4 168.6	799.0 813.2	R 291.0 289.2	R 1,090.0 1,102.4
2014	2.6	195.4	118.6	9.7	6.5	203.1	3.1	51.1	396.2	0.0	53.4	1.6	1.0	(s) (s)	166.1	816.5	268.7	1,085.1
2016	0.0	182.2	121.6	9.6	6.3	210.9	3.6	54.9	406.9	0.0	53.0		1.0	R (s)	167.4	813.3	258.5	R 1,071.7
2017	0.0	192.5	122.8	8.8	6.4	206.1	4.0	55.6	403.6	0.0	48.0		1.0	0.1	163.2	811.1	R 256.9	R 1,067.9
2018	0.0	214.4	125.4	10.0	6.0	200.4	1.3	55.3	398.5	0.0	49.0		1.0	0.1	171.9	837.6	R 266.9	R 1,104.4
2019	0.6	211.9	125.1	10.5	6.5	207.1	1.5	49.8	400.6	0.0	48.2		1.0	0.1	167.0	R 829.4	R 262.8	R 1,092.2
2020	2.2	207.4	122.1	9.7	6.1	193.8	1.1	53.3	386.1	0.0	R 46.9		1.0	0.1	158.6	H 802.3	R 233.2	R 1,035.6
2021	2.2	213.6	R 119.5	10.6	6.4	205.3	2.3	56.5	R 400.5	0.0	R 47.2		1.0	R 0.1	163.8	R 828.4	R 253.1	R 1,081.5
2022	2.0	232.9	121.8	10.7	7.4	201.4	2.3	56.2	399.8	0.0	45.3	(s)	1.0	0.1	167.1	848.2	252.4	1,100.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Mississippi

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	0	24	23	2,187	13	2,223				2,089			
1965 1970	Ŏ	24 37	23 32 89	2,558 4,580	27 75	2,617				3,705			
1970	0	37	89	4,580	75	4,744				6,880			
1975 1980 1985	, 0	30	196	3,778	127 44 27	4,101				8,091			
1980	(s) (s)	29 26	7	1,965 1,710	44	2,016 1,738				9,964 10,447			
1990	(s)	25	i	1,710	12	1,730				10,447			
1995	0	25 27	(s)	1,927 1,737	12 20	1,940 1,758				12,266 14,181			
2000	ŏ	27	1	3.570	35	3 607				17 193			
2005 2006	0	24 21 22	8	1,723 1,637	17 14	1,749 1,652				17,953 18,276			
2006	0	21	(s)	1,637	14	1,652				18,276			
2007	0	22	(s)	1,646	13	1,659				18,566			
2008 2009	0	24 23 27	(S)	1,984 2,048 2,016	4	1,988 2,061				18,294 18,095			
2009	0	23 27	(S)	2,0 <del>4</del> 6 2,016	13 11	2,001				20,175			
2011	ŏ	24	(s)	1,739	6	1.745				19.336			
2012	Ö	24 20	(s)	1,250	2	1,745 1,252				19,336 17,993			
2013	0	25 28 23	(s)	1,452	3	1,455 1,767 1,420				18,462 18,922 18,561			
2014 2015	0	28	(s)	1,762 1,418	5	1,767				18,922			
2015	0	23	(S)	1,418	2	1,420				18,561			
2016 2017	0	20 18	(S)	1,363 1,255	3	1,366 1,255				18,459 17,444			
2017	0	24	(5)	1,442	<u> </u>	1,233				19,311			
2019	ő	23	(s)	1.530	i	1,444 1,532				18.718			
2020	0	21	(s)	1,302	1	1,303				17,995			
2021	0	21	(s)	1,388	2	1,390				18,570			
2022	0	22	(s)	1,349	2	1,350				18,918			
							Trillion Btu						
1960	0.0	24.9	0.1	8.4	0.1	8.6	27.5	NA	NA	7.1	68.1	R 14.4 R 24.9 R 48.1 R 56.4 R 72.3	R 82.5 R 90.9 R 138.0 R 140.7 R 154.8
1965 1970	0.0	24.8	0.2 0.5	9.8	0.2	10.2 18.5	18.5	NA	NA	12.6	66.1	R 24.9	R 90.9
1970	0.0	37.6	0.5	17.6	0.4	18.5	10.3	NA	NA	12.6 23.5 27.6	89.9	n 48.1	n 138.0
1975 1980	0.0	30.2 30.5	1.1	14.5 7.5	0.7 0.2	16.4 7.8	10.1 10.1	NA NA	NA NA	27.6 34.0	84.3 82.5	11 56.4 B 70.0	11140.7 B 154.0
1005	(s) (s)	26.3	(s) (s)	7.5 6.6	0.2	6.7	18.0	NA NA	NA NA	34.0 35.6	86.7		T 154.6
1985 1990 1995	(s)	25.9	(s)	7.4	0.1	7.5	9.2	(s)		41.9	84.3	R 96.8 R 116.1 R 141.4 R 132.9	R 159.2 R 181.1
1995	0.0	27.5	(s)	6.7	0.1	6.8	9.2 7.2	(s)	(s) (s)	48 4	89.9	R 116.1	R 206.0
2000	0.0	25.9 27.5 28.2	(s)	13.7	0.2	13.9	3.8	(s) (s) (s)	(s)	58.7	104.6	R 141.4	R 206.0 R 246.0 R 230.9 R 229.4 R 231.7 R 227.5
2005	0.0	25.2	(s)	6.6	0.1	6.8	4.8	(s) (s) (s)	(s)	61.3	98.0	R 132.9	R 230.9
2006 2007	0.0	22.0 22.9 24.5	(s)	6.3	0.1	6.4	4.3 4.7	(s)	(s)	62.4 63.3 62.4	95.0	R 134.3 R 134.3 R 127.6 R 121.5 R 130.0	H 229.4
2007	0.0 0.0	22.9	(S)	6.3	0.1	6.4 7.6	4.7	(S)	(s)	63.3	97.4 99.9	1134.3 B 107.6	H 231.7
2000	0.0	24.5 24.0	(S)	7.6 7.9	(s) 0.1	7.6 7.9	5.3	(8)	(S) (S)	61.7	99.9 99.2	" 127.0 R 121.5	R 227.5
2009 2010	0.0	27.7	(s)	7.7	0.1	7.8	5.3 5.5 5.9	(s) (s) (s) 0.5	(s)	68.8	110.3	R 130 0	R 220.7 R 240.3 R 228.4
2011	0.0	24 7	(s)	6.7		6.7	5.7	0.5	(s)	66.0	103.6	'' 124 8	R 228.4
2012	0.0	19.9 25.5	(s)	4.8	(s) (s)	4.8	5.7 4.8 6.3	0.2	(s)	66.0 61.4	91.1	103.2 R 110.1	194.3 R 210.7
2013	0.0	25.5	(s)	5.6	(s)	5.6	6.3	0.2	(s)	63.0	100.5	H 110.1	H 210.7
2014	0.0	29.1	(s)	6.8	(s)	6.8	6.3	0.2	(s)	64.6	106.9	110.8	217.7
2015	0.0 0.0	23.8	(S)	5.4 5.2	(s)	5.5 5.3	1.4 1.3	0.2 0.2	(s)	63.3 63.0	94.2	102.4	196.6
2016 2017	0.0	20.7 19.1	(S)	5.2 4.8	(S)	5.3 4.8	1.3 0.8	0.2 0.2	(s) (s)	59.5	90.4 R 84.4	97.3 R 93.7	187.7 R 178.1
2018	0.0	25.1	(s)	5.5	(s)	5.5	1.5	0.2	(s)	65.9	98.2	R 102.3	R 200 4
2018 2019	0.0	25.1 23.8	(s)	5.9	(s)	5.9	16	0.2 0.2	R isi	65.9 63.9	95.4	R 100.5	R 195.8
2020	0.0	21.2 21.9	(s)	5.0 5.3		5.0	Rng	0.2	R (s)	61.4 63.4	95.4 R 88.7 R 91.6	R 102.3 R 100.5 R 90.3 R 97.9	R 200.4 R 195.8 R 179.0 R 189.5
2021	0.0	21.9	(s)	5.3	(s) (s)	5.0 5.3 5.2	<sup>R</sup> 0.8	0.2	R (s) R (s) 0.1	63.4	H 91.6	H 97.9	H 189.5
2022	0.0	23.1	(s)	5.2	(s)	5.2	1.1	0.2	0.1	64.5	94.2	97.5	191.6

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Mississippi

					Pet	troleum			Undua	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet		•	Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	0	15	28	695	0	79	18	819	NA			NA	1 278			
1965	Ö	12	39	812	0	88	33 45	971	NA			NA	1,278 1,968			
1970 1975	0	24 24	108	1,454 1,200	0	91 105	45 898	1,699 2,441	NA NA			NA NA	3,019 3,982			
1980	2	21	239 24	624	Ö	122	3,405	4,175	NA			NA NA	5,110			
1985		17	755	543	39	134	11	1,482	NA			NA	6,131			
1990 1995	(s)	18 20	400 318	612 552	6 7	165 49	0	1,183 926	0			0	7,407 8,210			
2000	0	22	261	1.134	8	45	0	1,447	0			0	12,287			
2005	0	21	193	469 575	8	194	0	864	0			0	12,666			
2006 2007	0	19 21	200 1,137	5/5 514	6	32 32	0	814 1,688	0			0	12,949 13,400			
2008	ő	20	636	556	2	37	(s)	1,231	ő			ő	13,233			
2009	0	19	654	574	1	32	`ó	1,261	0			0	13,013			
2010 2011	0	21 20	586 658	559 548	1	32 32 36	0	1,178 1,239	0			0 (s)	13,805 13,738			
2012	ő	18	635	480	(s)	36	0	1,152	0	==		(s)	13,585			
2013	Ō	19	578	567	(s)	38	Ō	1,183	Ō			`1	14,188			
2014 2015	0	22 20	699 651	574 503	1 (2)	33 455	0	1,308 1,609	0			1	14,175 14,392			
2016	0	18	676	488	(s)	473	0	1,638	0			4	14,523			
2017	Õ	18	725	478	(s)	466	Ô	1,669	Õ			6	14,256			
2018 2019	0	21 20	671 546	368 429	1	473 478	0	1,513 1,453	0			7 8	14,530 14,239			
2019	0	18	629	529	2	480	0	1,455	0			8	13,185			
2021	Ö	19	579	501	1	484	Ö	1,565	Ö			7	13,676			
2022	0	20	597	622	1	497	0	1,716	0			11	14,090			
								Tri	llion Btu							
1960	0.0	15.7	0.2	2.7	0.0	0.4	0.1	3.4	NA	0.5 0.3	NA	NA	4.4	23.9	R 8.8	R 32.7
1965 1970	0.0 0.0	12.8 24.4	0.2 0.6	3.1 5.6	0.0 0.0	0.5 0.5	0.2	4.0 7.0	NA NA	0.3	NA NA	NA NA	6.7 10.3	23.8 41.9	R 13.2 R 21.1	R 37.1 R 63.0
1975	0.0	24.4	1.4	4.6	0.0	0.6	0.3 5.6	12.2	NA	0.2	NA	NA	13.6	50.4	R 27.7	H 78 2
1980	(s)	21.6	0.1	2.4	0.0	0.6	21.4	24.6	NA	0.3	NA	NA	17.4	63.9	H 37.1	R 101.0
1985 1990	(s) (s)	17.0 18.1	4.4 2.3	2.1 2.4	0.2 (s)	0.7 0.9	0.1 0.0	7.5 5.6	NA 0.0	0.4 1.0	NA (s)	NA 0.0	20.9 25.3	45.8 50.0	R 42.5 R 58.4	R 88.4
1995	0.0	20.3	1.9	2.1	(s)	0.3	0.0	4.3	0.0	1.0	(s) 0.1	0.0	28.0	53.7	R 58.4 R 67.2	R 108.4 R 120.9
2000	0.0	22.6	1.5	4.4	(s)	0.2	0.0	6.2	0.0	0.6	0.2	0.0	41.9	71.5	H 101.0	H 172.6
2005 2006	0.0 0.0	21.5 19.9	1.1 1.2	1.8 2.2	(s) (s)	1.0 0.2	0.0 0.0	4.0 3.6	0.0 0.0	0.8 0.7	0.5 0.5	0.0 0.0	43.2 44.2	69.9 68.9	R 93.7 R 95.2	R 163.7 R 164.1
2007	0.0	21.4	6.6	2.2 2.0 2.1	(S)	0.2	0.0	8.7	0.0	0.8	0.6	0.0	45.7	77.2	Rasa	n 174 1
2008	0.0	20.7	3.7	2.1	(s)	0.2	(s) 0.0	6.0	0.0	0.8	0.6	0.0	45.1	73.3	R 92.3 R 87.4	H 165 6
2009 2010	0.0 0.0	19.5 21.6	3.8 3.4	2.2 2.1	(s) (s)	0.2 0.2	0.0 0.0	6.1 5.7	0.0 0.0	0.8 0.8	0.7 0.8	0.0 0.0	44.4 47.1	71.5 75.9	<sup>R</sup> 87.4 89.0	R 159.0 R 164.9
2010	0.0	20.6	3.8	2.1	(s)	0.2	0.0	6.1	0.0	0.7	0.6	(s)	46.9	74.8	R 88.6	R 163.5
2012	0.0	18.1	3.7	1.8	(s)	0.2	0.0	5.7	0.0	0.6	0.7	(s)	46.4	71.5	77 9	149.5
2013 2014	0.0 0.0	19.7 22.8	3.3 4.0	2.2 2.2	(s)	0.2 0.2	0.0 0.0	5.7 6.4	0.0 0.0	0.8 0.8	0.7 0.7	(s)	48.4 48.4	75.3 79.1	R 84.6 83.0	R 160.0 162.1
2014	0.0	20.2	3.8	1.9	(s)	2.3	0.0	8.0	0.0	0.8	0.7	(s)	49.1	78.3	79.4	157.7
2016	0.0	18.6	3.9	1.9	(s)	2.4	0.0	8.2	0.0	0.2	0.7	(c)	49.6	77.3	76.5	153 9
2017 2018	0.0 0.0	18.3 21.6	4.2 3.9	1.8 1.4	(s) (s)	2.4 2.4	0.0 0.0	8.4 7.7	0.0 0.0	0.1 0.2	0.7 0.7	R (s) R (s)	48.6 49.6	76.2 R 79.8	R 76.6 R 77.0	R 152.7 R 156.8
2019	0.0	21.0	3.1	1.6	(S)	2.4	0.0	7.7	0.0	0.2	0.7	H (s)	48.6	77.8	R 76.4	H 154 2
2020	0.0	18.8	3.6	2.0	(s)	2.4	0.0	8.1	0.0	0.2	0.7	R (s)	45.0	72.9	R 66.2	R 139.0
2021 2022	0.0 0.0	19.8 20.7	3.3 3.4	1.9 2.4	(s)	2.4 2.5	0.0 0.0	7.7 8.3	0.0 0.0	0.2 0.2	0.7 0.7	R (s)	46.7 48.1	R 75.1 78.1	R 72.1 72.6	R 147.2 150.7
2022	0.0	20.7	3.4	2.4	(s)	2.5	0.0	0.3	0.0	0.2	0.7	(s)	40.1	/6.1	12.0	150.7
2		antal gassaus fus										dariyad but abaula			ond Total For 1	

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Mississippi

					Petro	leum				Rio	mass						
		Natural	Distillate		Motor	Residual			Hydro- electric		ilia33						
	Coal	gas <sup>a</sup>	fuel oil	HGL <sup>b</sup>	gasoline <sup>c</sup>	fuel oil	Other <sup>d</sup>	Total	power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousan	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use f,k	energy losses	Total <sup>f,k</sup>
1960	21 31	77 105	1,441 1,590	1,118	738 610	218	2,475	5,990 7,896	0				NA	2,004 3,517			
1965 1970	31 48	105 141	1,590 3,100	1,117 2,139	610 311	149 240	4,430 10,006	7,896 15,795	0				NA NA	3,517 5,101			
1975	24	107	4,455	2,739	218	778	9,176	17,366	ő				NA	6,814			
1980 1985	53 251	79 105	3,527 3,814	2,952 2,187	73 751	2,172 89	8,566 6,480	17,290	0				NA NA				
1990	251 271	105 108	3,851	4,423	578	947	8,736	13,321 18,534	ŏ				0	12,454			
1995 2000	287 155	88 120	3,881 3,275	4,448 1,727	427 758	81 7	7,962 8,178	16,799 13,945	0				0	15,477 15,856			
2005	121	99	3,188	960	1,383	294	10,350	16,175	0				0	15,282			
2006	150	104	2,845	1,369	1,483	66	11,666	17,427	0				0	15,712			
2007 2008	148 134	111 115	3,113 2,857	891 545	628 427	115 123	11,638 9,379	16,384 13,331	0				0	16,187 16,195			
2009	110	109	2,080	520	435	123 53	8,160	11,248	0				0	14,940			
2010 2011	124 114	127 116	2,426 2,320	526 512	620 621	19 47	8,642 9,070	12,233 12,571	0				0	15,707 16,263			
2012	113	117	3,234 3,457	487	592	33 17	8,443	12,789	ŏ				ŏ	16,810			
2013 2014	123 110	118 120	3,457 3,293	551 627	646 562	17	8,109 7,459	12,780 11,941	0				0	16,132 16,312			
2014	111	126	2,513	543	392	(s) 6	7,800	11 343	0	==			0		==		==
2016	0	119	2.307	592	377	(s)	R g 270	H 11.555	0				(s)	16,069			
2017 2018	0	130 137	2,823 2,683	552 744	380 384	(s) (s)	R 8,433 R 8,375	R 12,187 _ 12,186	0				1 (s)	16,129 16,549			
2019	19	135	2,725	760	376	(s)	R 7.597	R 11.458	Ö				`1	15,994			
2020 2021	76 74	133 134	2,757 2,585	613 799	379 380	(s) (s)	R 8,160 R 8,321	R 11,909 R 12,086	0				(s)	15,302 15,769			
2022	69	145	2,613	801	391	(s)	8,259	12,065	ő				i				
									Trillion Bt	u							
1960	0.5	79.3	8.4	4.2	3.9	1.4	15.2	33.1	0.0	18.5	NA	NA	NA		138.3	R 13.8	R 152.1
1965 1970	0.8 1.2	108.5 144.4	9.3 18.1	4.2 7.8	3.2 1.6	0.9 1.5	27.2 60.3	44.9 89.3	0.0	19.0 23.0	NA NA	NA NA	NA NA		185.1 275.3	R 23.6 R 35.7	R 208.7 R 311.0
1975	0.6	109.1	26.0	9.7	1.1	4.9	56.3	97.9	0.0	20.8	NA	NA	NA	23.3	251.6	R 47.5	R 299.1
1980 1985	1.2 5.9	81.5 108.1	20.5 22.2	10.4 7.5	0.4 3.9	13.7 0.6	52.6 41.0	97.6 75.2	0.0 0.0	27.7 32.5	NA 0.0	NA NA	NA NA		236.0 252.8	R 59.4 R 63.4	R 295.4 R 316.3
1990	6.3	111.6	22.4	15.3	3.0	6.0	54.1	100.8	0.0	74.7	0.0	0.0	0.0	42.5	335.8	R 98.3	H 434.1
1995	6.9	89.9	22.6	15.4	2.2	0.5	49.5	90.2	0.0	85.9	0.0	0.0	0.0	52.8	325.6	H 126 7	H 452 3
2000 2005	3.7 2.9	125.6 102.1	19.1 18.5	5.9 3.3	3.9 7.2	(s) 1.9	50.9 64.3	79.9 95.2	0.0 0.0	70.6 56.5	0.0 0.0	(S)	0.0 0.0	52.1	334.0 308.9	R 130.4 R 113.1	R 464.3 R 422.0
2006	3.6	106.9	16.5	4.7	7.7	0.4	72.8	102.1	0.0	57.5	(s)	(s) (s) (s) (s)	0.0	53.6	323.7	R 115.5 R 117.1	R 439.2
2007 2008	3.5 3.1	114.0 118.1	18.0 16.5	3.0 1.8	3.2	0.7	72.7 58.3	97.7 79.6	0.0 0.0	57.5 40.0	(s) (s) 0.3	(s) (s)	0.0 0.0	55.2 55.3	328.0 296.5	R 117.1 R 113.0	R 445.1 R 409.4
2009	2.6	111.9	12.0	1.7	2.2 2.2	0.8 0.3	50.4	66.6	0.0	39.2	3.0	(s) (s)	0.0		274.4	H 100.4	H 374.7
2010	2.8	129.5	14.0	2.0	3.1 3.1	0.1 0.3	53.3 56.0	72.6	0.0	49.8	2.5 2.3		0.0		310.8	R 101.2 R 104.9	R 412.0 R 408.9
2011 2012	2.6 2.6	118.0 118.6	13.4 18.6	2.0 1.9	3.1	0.3	56.0 51.8	74.8 75.5	0.0 0.0	50.6 64.6	2.3	(s) (s)	0.0 0.0		303.9 320.7	96.4	417.2
2013	2.8	119.5	19.9	2.1	3.3	0.1	49.7	75.2	0.0	51.5	0.1	(s)	0.0	55.0	304.0	R 96.2	R 400.3
2014 2015	2.5 2.6	123.3 129.0	19.0 14.5	2.4 2.1	2.8 2.0	(s) (s)	45.8 48.6	70.0 67.2	0.0 0.0	52.6 51.8	0.1 1.6	(s)	0.0 0.0		304.2 305.8	95.5 86.8	399.7 392.7
2016	0.0	122.0	13.3	2.3	1.9	(s)	52.4	69.9	0.0	51.5	2.7	(s) (s)	(s)	54.8	301.0	84 7	385.7
2017	0.0	134.9	16.2	2.1	1.9	(s)	53.3	73.6	0.0	47.0	2.8	(s)	(s)	55.0 56.5	313.4	R 86.6 R 87.6	R 400.0 R 408.1
2018 2019	0.0 0.6	140.5 138.4	15.4 15.7	2.9 2.9	1.9 1.9	(s) (s)	53.1 47.7	73.3 68.2	0.0	47.3 46.4	2.8 0.1	(s) (s)	(s) (s)	54.6	320.4 308.3	R 85 9	R 394.2
2020	2.2 2.2	136.5	15.9	2.4	1.9	(s)	51.3	R 71.5	0.0	45.9	(s) (s)	(s) (s)	(s)	52.2 53.8	308.3 R 308.4	R 76.8	R 385.2
2021 2022	2.2	138.1 149.8	14.9 15.1	3.1 3.1	1.9 2.0	(s) (s)	R 52.7 52.5	72.6 72.6	0.0	46.3 44.0	(s) (s)	(s) (s)	(s) (s)		313.1 323.0	R 83.1 82.3	R 396.2 405.3
	2.0	0.0	.5.1	3.1	2.0	(0)	32.0	,	0.0		(6)	(0)	(0)	34.0	020.0	02.0	.00.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Mississippi

						Pe	etroleum							
<b>;</b>	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	(s)	31	170	882	220	1,465	292	15,279	11	18,320	0			
1965 1970	(s)	45 59	463 318	1,136	233 472	1,460	312 283	17,842	301	21,747 29,293	Ō			
1970 1975	(s)	59 38	318 203	2,690 4,696	4/2	1,614	283 307	23,914	3 1 184	29,293 35,817	0			
1980	(3)	39	206	6,020	464 152 232	1,475 1,530	307 315 286 322	27,489 26,585	1,184 5,355	35,817 40,163 41,379	0			
1985 1990	0	25	206 108 132	8,830	232	4,111	286	26,701	1,110	41,379	0			
1990 1995	0	38 42	132	8,920 9,825	131 72	6,922 7,573	322 307	28,337 33,540	1,532 2,519	46,296 53,937	0			
2000	ő	31	98	12,927	114 45	9,004	307 328	36,391	1,366	53,937 60,228	ő			
2005	0	22	45	16.664	45	5.902	277	38.188	600	61.721	0			
2006 2007	0	22 27	109 108	18,333 18,590	32 30	7,097 4,366	270 279	38,582 39,874	703 684	65,127 63,931	0			
2008	ő	29	98	17.752	32 30 78 56 47	4,104	259	38 906	654	61.852	Ö			
2009	0	29	98 73 74	17,685	56	4,853	259 233 351	37,388 38,750	714	61,002	0			
2010 2011	0	28 29	/4 60	16,685 16,229	4/ 33	1,294 1,139	351 327	38,750 37,200	777 872	57,978 55,869	0			
2012	ŏ	48	67	16 071	33 42	1,172	327 311	38.378	1,061	57.103	ŏ			
2013 2014	0	24	69 67 62 53 47	15,321 15,863	53	1,330 1,221	312 324	38,037 39,550	1,061 692 144	55,807 57,193	0			
2014 2015	0	21 22	53 47	15,863 17,423	39 58	1,221 1,147	324 376	39,550 40,130	144 488	57,193 59,669	0			
2016	Ö	20	43 47	18,139	53 39 58 47	1,105	R 364 R 328	40,878	578	59,669 R 61,155 R 59,858	0			
2017	0	20	47	17,775	2	1.127	R 328	39,950	628	R 59,858	0			
2018 2019	0	27 28	62 43	18,422 18,453	54 14	1,054 1,148	R 309 R 304	38,800 40,148	214 246	R 58,915 R 60,357	0			
2020	ő	30	62 43 52 64	17,824	69 74	1,077	283 R 289	37,507	176	_ 56,988	Ö			
2021	0	33	64	17,824 R 17,568	74	1,122	R 289	39,782	363	H 59,572	0			
2022	0	38	66	17,919	2	1,306	305	39,001	372	59,256	0			
								Ilion Btu						
1960 1965	(s) (s)	32.5 46.6	0.9 2.3	5.1 6.6	0.8 0.9	7.8 7.8	1.8 1.9	80.3 93.7	0.1 1.9	96.8 115.2	0.0 0.0	129.3 161.8	0.0 0.0	129.3 161.8
1970	(S)	60.8	1.6	15.7	1.8	7.6 8.7	1.7	125.6	(s)	155.2	0.0	216.0	0.0	216.0
1975	(s)	39.2	1.0	15.7 27.4	1.8	8.0	1.7 1.9	144.4	(s) 7.4	191.9	0.0	231.1	0.0	231.1
1980 1985	0.0 0.0	40.6 25.9	1.0 0.5	35.1 51.4	0.6 0.9	8.3	1.9 1.7 2.0	139.7 140.3	33.7 7.0	220.3 224.8	0.0 0.0	260.9 250.7	0.0 0.0	260.9 250.7
1990	0.0	25.9 39.0	0.7	52.0 57.2	0.5	22.9 39.0	2.0	148.9	9.6	252.5	0.0	291.5	0.0	291.5
1995	0.0	42.6	0.5	57.2	0.3	42.9	1.9	174.5	15.8	293.1	0.0	335.7	0.0	335.7
2000 2005	0.0 0.0	32.2 22.1	0.5	75.2 97.0	0.4 0.2	51.1 33.5	2.0	189.3 198.3	8.6 3.8	327.1 334.5	0.0 0.0	359.3 356.8	0.0 0.0	359.3 356.8
2006	0.0	22.7	0.2 0.6	106.4	0.1	40.2	1.7 1.6	200.0	4.4	334.5 353.4	0.0	376.5	0.0	376.5
2007 2008	0.0 0.0	28.1 29.5	0.5 0.5	107.5 102.6	0.1 0.3	24.8 23.3	1.7 1.6	205.0 198.7	4.3 4.1	344.0 331.0	0.0	372.7 361.0	0.0 0.0	372.7 361.0
2008	0.0 0.0	29.5 29.6	0.5 0.4	102.6 102.2	0.3 0.2	23.3 27.5	1.6 1.4	198.7 190.3	4.1 4.5	331.0 326.5	0.0 0.0	361.0 356.1	0.0	361.0 356.1
2010	0.0	28.7	0.4	96.4	0.2	27.5 7.3 6.5	2.1	196.3	4.9	307.6	0.0	336.3	0.0	336.3
2011	0.0	29.3	0.3	93.6	0.1	6.5	2.0	188.3	5.5	296.4	0.0	325.7	0.0	325.7
2012 2013	0.0 0.0	49.3 24.0	0.3 0.3	92.7 88.3	0.2 0.2	6.6 7.5	1.9 1.9	194.3 192.5	6.7 4.3	302.7 295.1	0.0 0.0	351.9 319.0	0.0 0.0	351.9 319.0
2014	0.0	21.2	0.3 0.2	91.4	0.1	6.9 6.5	2.0 2.3	200.1	0.9	301.7	0.0	322.9 338.1	0.0	322.9
2015	0.0	22.5 20.9	0.2	100.4	0.2 0.2	6.5 6.3	2.3	202.9	3.1	315.6	0.0	338.1	0.0	338.1 344.5
2016 2017	0.0 0.0	20.9 20.2	0.2 0.2	104.4 102.3		6.3	2.2 2.0	206.6 201.9	3.6 3.9	323.6 316.8	0.0 0.0	344.5 337.0	0.0 0.0	337.0
2018	0.0	27.2	0.3	106.1	(s) 0.2	6.0	1.9	196.1	1.3	311.9	0.0	R 339.1	0.0	R 339.1
2019	0.0	28.7	0.2	106.3	0.1	6.5	1.8 1.7	202.8	1.5 1.1	319.3 301.5	0.0	348.0	0.0	348.0
2020 2021	0.0 0.0	30.9 33.8	0.3 0.3	106.3 102.6 R 101.3	0.3 0.3	6.1 6.4	1./ R 1.8	189.5 200.9	1.1 2.3	301.5 R 314.8	0.0 0.0	332.4 R 348.6	0.0 0.0	332.4 R 348.6
2022	0.0	39.2	0.3	103.3	(s)	7.4	1.8	196.9	2.3	313.7	0.0	352.9	0.0	352.9
				nd since 1000 also				h For 1981			anded into motor gas			

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Mississippi

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	8 9	34	1	0	64	65 7	0	0		0	NA	NA	0	
1965 1970	9	34 56 100	(s) 5	0	6		0	0		0	NA	NA	0	
1970 1975	500 1,416	100	266	0	415 9,203	420 9,469	0	0		0	NA NA	NA NA	0	
1980	3,072	32 95 54	266 70	0	5,078	5,149	Ö	0		0	NA	NA	0	
1985	4.267	54	61	0	108	169	4,332	0		0	0	0	0	
1990	3,888 4,319 6,232	65	50 41 53 90 28 69	0	1,179 7	1,228	7,422 8,013	0		0	0	0	0	
1995 2000	4,319 6,232	111 101	41 53	0	1 533	48 4,585 2,478	8,013 10,695	0		0	0	0	0	
2005	9,760	136	90	0	4,533 2,388	2.478	10.078	0		0	0	0	0	
2006 2007	10,378	140 183	28	Ö	650 650	678 719	10,419 9,359	Ō		Ö	Ö	Ö	Ö	
2007	9,895	183	69	0	650	719	9,359	0		0	0	0	0	
2008 2009	9,497	167	40	0	110	150	9,397	0		0	0	0	0	
2009	8,424 8,589	183 235	23 22	0	12 116	35 137	10,999 9,643	0		0	0	0	0	
2011	6.203	244	30	ŏ	34	65	10.337	Ŏ		ŏ	ő	ŏ	Ŏ	
2012	6,203 5,240	291	26	Ö	(s)	26	10,337 7,296	0		0	0	Ö	Ö	
2013	5,867	234	23	0	0	23	10.865	0		0	0	0	0	
2014 2015	6,550 4,830	244 291 234 237 331 367	30 26 23 30 29 32 24	0	(s) (s)	65 26 23 30 29 32	10,252 11,715	0		0	0	0	0	
2016	4,522	367	32	0	(8)	32	5,897	0		0	0	0	0	
2017	3 865	341	24	ŏ	ŏ	24	7 365	ŏ		ŏ	86	ŏ	ŏ	
2018 2019	4,506 3,833	368 361	47 24	0	0	47	6,919 11,033	0		0	326 322	0	0	
2019	3,833	361	24	0	0	24	11,033	0		0	322	0	0	
2020 2021	3,989 4,774	391	11 12	0	0	11	6,471 11,772	0		0	430 425	0	0	
2022	4,915	391 353 379	12	ő	ŏ	12 12	8,600	ő		ŏ	504	ő	Ö	
							Trillion Btu							
1960 1965	0.2 0.2	35.6 58.0	(s) (s)	0.0 0.0	0.4	0.4	0.0	0.0	0.0	0.0	NA	NA	0.0 0.0	36.2 58.3
1965	0.2	58.0	(s)	0.0	(s)	(s) 2.6	0.0	0.0	0.0	0.0	NA	NA	0.0	58.3
1970	12.1 32.8	102.2	(S)	0.0	2.6 57.0	2.6 50.4	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	116.9 124.7
1975 1980 1985	12.1 32.8 73.7	102.2 32.5 96.7 55.7 67.4	(s) 1.5 0.4 0.4	0.0 0.0	2.6 57.9 31.9	59.4 32.3	0.0	0.0	0.0	0.0	NA	NA	0.0 0.0 0.0	124.7 202.7
1985	103.5	55.7	0.4	0.0	0.7	1.0	46.0	0.0	0.0	0.0	0.0	0.0	0.0	206.2
1990 1995	97.6 96.9	67.4	0.3 0.2	0.0	7.4 (s)	7.7	78.5 84.2	0.0	0.0	0.0	0.0	0.0	0.0	251.3 296.4
1995 2000	96.9 143.8	115.1 103.5	0.2	0.0 0.0	(s) 28.5	0.3 28.8	84.2 111.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	296.4 387.6
2005	173.4	139.9	0.5	0.0	15.0	15.5	105.2	0.0	0.0	0.0	0.0	0.0	0.0	434.0
2005 2006	173.4 186.4	139.9 144.4	0.5 0.2	0.0	15.0 4.1	15.5 4.2 4.5	105.2 108.7	0.0 0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0 0.0	434.0 443.8
2007	181.5	188.7	0.4 0.2	0.0	4.1	4.5	98.2	0.0	0.0	0.0	0.0	0.0	0.0	472.8 444.6 440.5
2008 2009	174.0	171.4 186.2	0.2	0.0	0.7	0.9 0.2	98.2	0.0	(s) 0.0	0.0	0.0	0.0 0.0	0.0 0.0	444.6
2009	139.1 145.6	237.4	0.1 0.1	0.0 0.0	0.1 0.7	0.2	115.0 100.8	0.0 0.0	(s)	0.0 0.0	0.0 0.0	0.0	0.0	440.5 484.7
2011	104.9	245.3	0.2	0.0	0.2	0.4	108.2	0.0	(s)	0.0	0.0	0.0	0.0	458.7
2012	79.8	294.1 238.2	0.2 0.2	0.0	(s) 0.0	0.2	76.5	0.0	(s)	0.0	0.0	0.0	0.0	450.6 447.0
2013	95.0	238.2	0.1	0.0		0.1	113.5	0.0	0.1	0.0	0.0	0.0	0.0	447.0
2014 2015	114.0 69.1	243.2 341.5	0.2 0.2	0.0 0.0	(s) (s)	0.2 0.2	107.2 122.5	0.0 0.0	0.1 0.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	464.7 533.3
2015	61.2	379.1	0.2	0.0	0.0	0.2	61.7	0.0	0.1	0.0	0.0	0.0	0.0	502.3
2017	53.8 60.0	379.1 351.2 377.5	0.2 0.1 0.3	0.0	0.0	0.1	77.0	0.0	0.1	0.0	R 0.3 R 1.1	0.0	0.0 0.0	R 482.5 R 511.3
2018	60.0	377.5	0.3	0.0	0.0	0.3	72.3	0.0	0.1	0.0	R 1.1	0.0	0.0	R 511.3
2019 2020	50.5 51.9 62.3 64.2	371.9 402.9	0.1	0.0	0.0	0.1	115.2	0.0	0.1	0.0	R 1.1 R 1.5	0.0	0.0	R 538.9 R 524.1 R 550.0
ZUZU	51.9	402.9	0.1	0.0	0.0	0.1	67.6 R 122.8	0.0	0.1	0.0	<sup>n</sup> 1.5 R 1.4	0.0	0.0	' 524.1
2021	60.3	363.3 389.3	0.1	0.0	0.0	0.1		0.0	0.1	0.0		0.0	0.0	H EEU U

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Missouri

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>9</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels	i			М	illion kilowatthou	rs	Thousan	nd barrels
1960 1965 1970 1971 1972	7,509	261	12,817 13,803	5,994 7,692	1,249 3,625 8,074 8,024 8,366	40,807	3,179 3,449 3,570 2,923 2,731	10,815	74,860 85,966 106,930 109,534 114,684	0	726 802	0	NA	NA
1965	7,509 8,534 12,863 13,510	261 341 430 429 425 427 410	13,803	7,692	3,625	40,807 45,015 56,041 58,707 61,213 62,431 61,500 62,342 65,111 66,596 67,945 63,350 60,036 63,388 63,755 63,994 63,208 65,260 66,109 67,526 68,930 69,947 70,581 71,675 71,189 73,852 72,510 73,737 76,754 77,084 77,084 77,084 77,084 77,084 77,817 76,835 76,918 76,736 73,826 72,202 73,284 73,859 75,195 76,859 76,859 76,859 76,673	3,449	10,815 12,382 11,238 11,625	85,966	0	802 927	0	NA NA	NA NA
1970	12,003	430 429	16,235 16,365	11,771 11,890 12,445 12,445 12,446 12,995 13,255 13,354 13,171 13,548 9,121 7,391 8,945 9,000 5,566 5,583 5,907 6,226 6,555 8,306 6,874 8,633 8,470 9,586 9,407 11,085 12,965 11,200 8,134 12,671 10,820 12,897 12,722 12,360 12,234 10,795 8,917	8.024	58,707	2,923	11,236	109,534	0	703	0	NA NA	NA NA
1972	15.382	425	18.256	12,451	8,366	61,213	2,731	11 668	114,684	Ö	612	Ö	NA	NA NA
1973 1974 1975 1976 1977	17,652 17,646	427	19,038 17,555	12,445	8,019 7,642	62,431	2,874 2,565	13,271 12,685 11,259 11,852	118,077 114,384 115,247 121,004	0	2,008	0	NA	NA
1974 1975	17,646	410 370	17,555 17,819	12,436	7,642 8,311	61,500 62 342	2,565 2,521	12,685 11,259	114,384 115,247	0	1,713	0	NA NA	NA NA
1976	19,955 21,517	380 367	17,819 19,874	13.255	7,870	65.111	2,521 3,041	11.852	121.004	0	1,280 740	0	NA NA	NA NA
1977	23 075	367	20 736	13,354	7.963	66,596	3 658	12 /94	125 101	0	454	0	NA	NA
1978 1979	22,538 23,780	359 347	23,138 23,152	13,171	8,114 7,480	67,945	3,716 3,512	13,656 12,429	129,739 123,471	0	1,017 1,100	0	NA NA	NA NA
1979	23,760	318	18 390	9 121	7, <del>4</del> 60 6,268	58,330 58,966	1 427	12,429	104 877	0	1,100 558	0	NA NA	NA NA
1980 1981 1982 1983 1984 1985 1986 1987	24,845 25,199 24,405 26,267 27,607	284	18,390 18,221 20,921 16,952 18,640	7,391	6,268 4,741 4,371	58,581	1,427 667 730 598 373	10,705 10,336 9,209 8,406 9,717	104,877 99,937 102,032	Ö	558 669	Ŏ	0	NA
1982	24,405	279	20,921	8,945	4,371	57,855	730	9,209	102,032	0	1,656 1,716 1,587 2,993 1,996 1,447 1,511 1,094 2,192	0	21	NA
1983	26,267 27,607	259 265	16,952 18,640	9,000 5,566	5,457 5,615	58,742 50,030	598 373	8,406 9,717	99,155	0 920	1,/16 1,587	0	16 31	NA NA
1985	24.733	260	19,987	5.583	5,889	60.036	732	9,717	101.698	8.030	2.993	0	35	NA NA
1986	24,733 23,821	260 242	19,987 18,448	5,907	5,889 6,710	63,388	732 551	9,471 9,297 9,943 11,206 9,900	99,155 99,841 101,698 104,301 108,186 112,352 112,305 108,963 108,523 112,091 116,847 122,318 126,329 132,110	8,030 7,170	1,996	Ö	35 31	NA
1987	24 764	232	20 115	6,226	7 463	63,758	680	9,943	108,186	6 284	1,447	0	53	NA
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	26,118 26,348	253 253 253 239 256	21,667 22,550 21,188 20,152	6,555 8 306	7,307 7,277	64,863 63,715	754 556 620 545	11,206	112,352	8,935 8,344	1,511	0	328 454	NA NA
1990	25.836	239	21,188	6.874	6.647	63.994	620	9.640	108.963	7.998	2.192	0	631	NA
1991	25,836 25,773	256	20,152	8,633	6,647 7,506	63,908	545	9,640 7,778	108,523	7,998 9,979	1,119	0	570	NA
1992	25,180 23,381 27,663	241	21,930 22,198 23,150	8,470	7,522	65,260		8,251	112,091	8,084	1,481	0	672	NA NA
1993	23,381	280 267	22,198 23,150	9,586	9,034 10,623	65,109 67,526	1,066	8,854 11,085	110,847	8,381 10,006	3,184 1,916	0	768 861	NA NA
1995	31,753	279	24,122	11,085	11,425	68,930	354	10,411	126,329	8,242	1,919	ŏ	576	NΔ
1996	31,753 34,382	294	24,122 27,137	12,965	11,425 12,133	69,947	1,066 526 354 360 253 233	9,567	132,110	8,242 8,890	1,481 3,184 1,916 1,919 1,314 1,593 2,347 1,853	0	303	NA
1997	36,860 38,549 37,975	283	28,760 36,172	11,200	12,325 12,758 12,760	70,581	253	7,870	130,989	8,955 8,517 8,587	1,593	0	167 189	NA NA
1999	37 975	259 266	36,225	12 671	12,750	71,073	140	11 181	130,270	8,517 8,587	1 853	0	406	NA NA
2000 2001	38,300 39,812	285	28,818 29,913	10,820	4,906 7,493 9,535	73,852	109 141	9,054	127,559	9,992 8,384		Ö	696	NA
2001	39,812	284	29,913	12,897	7,493	72,510	141	13,070	136,024	8,384	1,104 1,357	0	632	.7
2002	40,885 45,028	2/6	29,381	12,722	9,535	/3,/3/ 76.754	112 118	11,699	137,185	8,390 9,700	1,357	0	1,520	11
2002 2003 2004 2005 2006	45,635	285 284 276 263 264 268 253	32,073 33,955	12,300	8,048 3,999	70,734	161	14.012	141,400	7.831	652 1,480 1,159 199	0	2,160 2,305 2,841 2,834	18
2005	47.033	268	33,124 33,474	10,795	6,599 6,574	76,998	110 70	13,374	141,000	8,031 10,117	1,159	Ö	2,841	60
2006	46,884	253	33,474	8,917	6,574	77,084	70	8,251 8,854 11,085 10,411 9,567 7,870 9,297 11,181 9,054 13,070 11,699 11,042 14,012 13,374 11,665 10,132 8,249	132,190 130,989 138,270 144,167 127,559 136,024 137,185 140,394 141,400 141,000	10,117	199	0	2,834	9 18 60 174 235 202 214
2007 2008 2009 2010 2011	45,376 44,902 43,614	273	34,364 30,139 29,752	10,5/3	6,339 5,586 3,635 5,221 5,232	//,81/ 76.835	38 43 31	11,665	140,795	9,372 9,379 10,247	1,204	303 0	3,920 5,708	235
2009	43.614	296 265	29.752	8.180	3,635	76,918	31	8.249	126,765	10.247	1.817	203 499 925 1,178	5.381	214
2010	45.617	280	31,363 31,047	7,660	5,221	76,736	28 19	6,783 6,415	127,790	8,996 9,371	1,539	925	6,556	173
2011	47 N2Q	273	31,047	7,011	5,232	73,826		6,415	123,550	9,371	1,185	1,178	6,450	589
2012	43,444 45,647	256 277	29,685	5,955 6,739	4,932 4,709	72,202 73,284	6	6,059 5,525	118,839	10,718	1136	1,245 1,167	6,201	553 884
2012 2013 2014	44.231	280 273 256 277 297	31.345	7.600	4.431	73.859	2	5.764	123.001	9.276	697	1,131	6.787	845
2015 2016	43,444 45,647 44,231 39,487 36,361	268	29,685 29,797 31,345 32,154 32,615	10,573 9,502 8,180 7,660 7,011 5,955 6,739 7,600 6,208 5,716 5,757 6,844 7,365	4,431 4,595 5,117	75,195	2	6,474	139,862 140,795 132,237 126,765 127,790 123,550 118,839 120,057 123,001 124,628 R 124,516 R 122,861 R 124,52	10,718 8,367 9,276 10,440 9,430	1,595	1,131 1,033	3,920 5,708 5,381 6,556 6,450 6,261 6,227 6,787 7,434 7,515 7,488	173 589 553 884 845 767 1,153 954 874 R 693
2016 2017	36,361 40,437	267 262	32,615 31,930	5,716	5,117 5,490	76,859	18 3	<sup>n</sup> 4,191 B 2 607	n 124,516 B 122,001	9,430 8,304	1,268	1,122 2,032	7,515	1,153
2017	40,437 37 911	202 323	32 932	5,757 6,844	5,490 5,268	75,073 75,231	(s)	R 4 082	R 124 358	0,304 10,655	1,182	2,032 2,835	7,488 7,337	954 874
2018 2019	37,911 33,595	323 320	32,932 32,797	7,365	5,268 5,613	74,467	0	R 4,721	R 124,963	9,190	2,216	2,835 2,858	7,378	R 693
2020 2021	31,283 34,750	297 R 287	31,742 R 31,507	6,736	3,101	68,716	5	R 5,239	R 124,358 R 124,963 R 115,539 R 121,669	10,655 9,190 7,742 4,292	1,879	3,345	6,816	897
2021 2022	34,750	<sup>H</sup> 287 316	H 31,507	6,736 6,576 7,282	3,101 4,050 4,678	75,231 74,467 68,716 74,436 75,207	1	5,525 5,764 6,474 R 4,191 R 3,607 R 4,082 R 4,721 R 5,239 R 5,099 4,390	H 121,669	4,292	1,204 2,047 1,817 1,539 1,185 714 1,136 697 1,595 1,268 1,182 828 2,216 1,879 1,697 1,384	3,345 6,534 7,525	7,337 7,378 6,816 7,428 7,529	897 R 756 722
2022	31,940	316	30,088	7,282	4,678	/5,20/	1	4,390	121,646	8,875	1,384	7,525	7,529	722

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Missouri (trillion Btu)

					Fossi	fuels						Fossil fuels	
					1 0001	Petroleum					-	(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL b	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	170.9	270.1	74.7	23.0	7.0	214.4	20.0	64.6	403.6	844.6	270.1	74.7	214.4
1965 1970	189.6 279.2	348.0 432.5 432.1	80.4 94.6 95.3	29.5 45.0	20.4 45.7	236.5 294.4 308.4	21.7 22.4	73.4 69.6 72.0	461.9 571.7 584.9	999.5 1,283.5	348.0 432.5 432.1	80.4 94.6 95.3	236.5 294.4 308.4
1971	294.1	432.1	95.3	45.4	45.7 45.4	308.4	18.4	72.0	584.9	1,311.2	432.1	95.3	308.4
1972	334.4	428.2	106.3	47.6 47.5	47.3 45.4 43.2	321.6	17.2	72.2 82.4	612.1 632.1	1,374.7	428.2 424.7	106.3 110.9	321.6
1973	334.4 383.5	424.7	106.3 110.9	47.5	45.4	321.6 327.9 323.1 327.5 342.0 349.8 356.9 332.8 309.8	18.1	82.4	632.1	1,374.7 1,440.3	424.7	110.9	321.6 327.9
1974	382.0	411.9	102.3	47.3	43.2	323.1	16.1	78.8	610.8 613.3 644.3 667.6	1.404.7	411.9	102.3	323.1 327.5 342.0 349.8
1975	430.2	371.8	103.8	49.4	47.0	327.5	15.9	69.7	613.3	1,415.4	371.8 381.4	103.8	327.5
1976 1977	468.3 503.9	381.4 367.7	115.8	50.2 50.4	44.5 45.1	342.0	19.1 23.0	72.6 78.5	644.3	1,494.0 1,539.2	381.4 367.7	115.8 120.8	342.0
1977	303.9 485.7	360.3	120.0 134.8	49.6	45.1 45.0	349.0 356.0	23.0	76.5 84.1	607.6	1,539.2	367.7	120.0 121.0	349.0 356.0
1979	485.7 512.5	340.1	102.3 103.8 115.8 120.8 134.8 134.9	50.5	45.9 42.4 35.5	332.8	23.4 22.1 9.0	76.2	694.6 658.8 560.7	1,540.5 1,511.4	360.3 340.1 322.9	134.8 134.9 107.1	356.9 332.8 309.8
1980	531.4	340.1 322.8	107.1	50.5 34.0	35.5	309.8	9.0	76.2 65.3	560.7	1.414.9	322.9	107.1	309.8
1981 1982	536.0 523.8	287.7 282.3	106.1 121.9	27.7 33.1	26.8 24.7	307.7 303.9	4.2 4.6 3.8	62.6 55.8	535.2 544.0	1,359.0 1,350.1	287.8 284.5	106.1 121.9	307.7 303.9
1982	523.8	282.3	121.9	33.1	24.7	303.9	4.6	55.8	544.0	1,350.1	284.5	121.9	303.9
1983 1984	564.4	264.2	98.7	33.7	30.9	308.6 314.8	3.8	51.1	526.7 537.2 548.6 561.8 583.4	1,355.3	265.5 269.5	98.7	308.6 314.8
1984 1985	593.3 529.7	269.1 264.0	108.6	20.7	31.8 33.3	314.8	2.3 4.6	59.0 58.0	537.2	1,399.6 1,342.3	269.5 264.3	108.6 116.4	314.8
1900	529.7 512.3	204.0	116.4 107.5 117.2	20.9 22.3 23.5	38.0	315.4 333.0 334.9	4.0 3.5	56.0 57.7	540.0 561.0	1,342.3	204.3	110.4	315.4 333.0 334.9
1986 1987	528.0	244.3 234.5	117.3	23.5	38.0 42.2	334.9	3.5 4.3	61.3	583.4	1,318.4 1,345.9	244.3 234.5	107.5 117.2	334.9
1988	547.3	254.4	126.2 131.4 123.4 117.4	24.5	41.3	344.7 334.7 336.2 335.7 342.8 342.2 349.1 356.7 363.4	4.7	69.8	607.4	1.409.1	254.4 254.5 241.3 258.6 241.2 280.7	126.2	340.7
1988 1989	547.3 550.4	254.4 252.7	131.4	24.5 31.2	41.3 41.2	334.7	4.7 3.5	69.8 61.3	607.4 603.2	1,409.1 1,406.3	254.5	131.4	340.7 334.7
1990	539.6 533.9	241.3	123.4	25.7 32.3	37.6 42.5	336.2	3.9 3.4	59.8 48.8	586.6	1,367.5 1,372.7	241.3	123.4 117.4	336.2 335.7
1991	533.9	258.6	117.4	32.3	42.5	335.7	3.4	48.8	580.2	1,372.7	258.6	117.4	335.7
1992	522.3	241.2 280.7	127.7	31.8 35.7	42.6 51.2	342.8	4.1 6.7	51.5	600.6 620.4	1,364.2	241.2	127.7	342.8 344.9 352.1
1993 1994	467.8 540.0	280.7 267.8	129.3 134.7 140.4 157.9	35.7 35.3	51.2 60.2	342.2	6.7	55.3 69.8	620.4 652.4	1,368.9 1,460.1	280.7 268.1	129.3 134.7	344.9
1994	593.7	207.0	134.7	41 N	64.8	349.1 356.7	3.3 2.2 2.3	65.5	670.7	1,400.1	200.1	134.7	352.1
1995 1996	631.1	281.1 296.4	157.9	41.0 48.3	64.8 68.8	363.4	2.3	65.5 60.4	670.7 701.1	1,545.4 1,628.6	281.1 297.2	140.4 157.9	358.7 364.5
1997	670.6	285.4	167.4	41.9	69.9 72.3	366.8	1.6	49.4 57.7	697.0	1,653.0	286.1	167.4	367.4
1998	670.6 695.7	285.4 261.5	167.4 210.5 210.8 167.7	30.4	72.3	372.3	1.5 0.9 0.7	57.7	697.0 744.7 769.4	1,653.0 1,701.8	286.1 261.5 269.3 289.0	167.4 210.5	367.4 372.9
1999	687.2	269.1	210.8	46.8	72.3 27.8	368.9	0.9	69.6 56.5	769.4	1,725.6 1,651.3	269.3	210.8	370.3 384.1
2000	688.9	288.1	167.7	40.0	27.8	381.7	0.7	56.5	674.4	1,651.3	289.0	167.7	384.1
2001 2002	716.4 725.7	288.6 278.9	1/4.1	48.7 47.0	42.5 54.1	374.9	0.9 0.7	81.5	722.5 722.5	1,727.5 1,728.1	288.6 278.9	174.1 171.0	377.1
2002	795.6	265.1	171.0	45.7	45.6	370.1	0.7	72.7 68.9	723.3 739.0	1,720.1	266.2	171.0	303.4 308.0
2004	807.5	268.3	197.6	44 7	22.7	392.3	1.0	85.8	744.1	1.819.9	269.2	197.6	400.3
2004 2005	807.5 835.7	268.3 273.4	174.1 171.0 186.6 197.6 192.7	39.3	22.7 37.4	366.8 372.3 368.9 381.7 374.9 378.1 391.4 392.3 389.9	1.0 0.7	85.8 81.9	722.5 723.5 739.0 744.1 742.0	1,799.8 1,819.9 1,851.0	269.2 273.4	186.6 197.6 192.7	383.4 398.9 400.3 399.8
2006 2007	829.1 802.9	257.9 277.9	194.2	32.7 38.5 35.7	37.3 35.9	389.9 386.5 372.5 372.9	0.4	82.0 70.7	736.5 730.6 675.2	1,823.5 1,811.4	258.0 278.0 298.4 266.7	194.2 198.8 174.2	399.7 400.1
2007	802.9	277.9	198.8	38.5	35.9	386.5	0.2	70.7	730.6	1,811.4	278.0	198.8	400.1
2008	792.9	298.4	174.2	35.7	31.7	372.5	0.3	60.8	675.2	1,766.5	298.4	174.2	392.3
2009 2010	765.6	266.7 282.1	170.2	30.5 29.4	20.6 29.6	372.9	0.2 0.2	50.0	644.4	1,676.8 1,729.7	266.7	171.9 181.1	391.5
2010	801.6 825.6	275.3	179.9	26.4	29.7	300.1 351 <i>A</i>	0.2	40.7 39.5	623.8	1,724.8	275.3	179.1	300.0 373.8
2012	768.3	258.9	168.3	22.9	28.0	343.8	(s)	36.8	599.7	1 627 0	258.9	171.2	365.5
2013	806.5	281.4	166.4	25.9	26.7	349.2	(s)	33.5 34.8	601.7	1.689.7	281.4	171.7	370.8
2013 2014	806.5 780.7	281.4 301.4	194.2 198.8 174.2 170.2 179.9 176.2 168.3 166.4 175.5	26.9 22.9 25.9 29.2	26.7 25.1	366.1 351.4 343.8 349.2 350.1	0.1 (s) (s) (s)	34.8	644.4 645.9 623.8 599.7 601.7 614.7	1,689.7 1,696.8	282.1 275.3 258.9 281.4 301.5	171.2 171.7 180.6	388.8 373.8 365.5 370.8 373.7
2015 2016	696.4 639.9	270.9 273.6	179.7	23.8 22.0	26.1 29.0	354.5	(s) 0.1	38.8	622.9	1,590.2 1,533.2 R 1,585.6 R 1,618.2	270.9 273.6	185.3 187.8	380.3
2016	639.9	273.6	180.4	22.0	29.0	362.4	0.1	25.9	<sup>H</sup> 619.8	1,533.2	273.6	187.8	388.5
2017 2018	709.8 668.2	264.6 330.6	1//.0	22.1 26.3	31.1	358.4	(S)	R 22.6	" 611.2 B 610.5	11,585.6 B 1,610.0	264.6 330.6	183.8 189.7	384.4
2018	584.7	330.6 327.8	179.7 180.4 177.0 183.5 182.8	26.3 28.3	29.9 31.8	354.b 350.5	(s) (s) 0.0	38.8 25.9 R 22.6 R 25.2 R 28.8	622.9 R 619.8 R 611.2 R 619.5 R 622.3	R 1,534.7	330.6 327 g	189.7 188.9	380.2 376.2
2019	551.3	R 303 7	176.5	25.3 25.9	17.6	323.5	0.0 (e)	R 32 q	R 576 3	1 431 4	R 303 7	180.9	347.2
2021	616.4	R 303.7 R 293.6	176.5 R 179.0	25.9 25.3	23.0	354.5 362.4 358.4 354.6 350.5 323.5 350.1	(s) (s)	R 32.9 R 31.2	R 576.3 R 606.1	R 1,516.2	327.8 R 303.7 R 293.7	182.7 R 181.6	380.3 388.5 384.4 380.2 376.2 347.2 375.9
2022	566.9	322.5	171.0	28.0	26.5	353.5	(s)	27.2	603.9	1,493.4	322.5	173.5	379.7
							• ,						

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Missouri (continued) (trillion Btu)

$\neg$							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 2.5	33.6	NA	NA	NA	NA	33.6	0.0	NA	NA	R 36.1	R 1.4	0.0	R 882.1
1965 1970	0.0 0.0	R 2.7 R 3.2	27.0 23.6	NA NA	NA NA	NA NA	NA NA	27.0 23.6	0.0 0.0	NA NA	NA NA	R 29.8 R 26.8	R -9.7	0.0 0.0	R 1,019.6 R 1,276.7
1971	0.0	H 2.4	23.0	NA	NA	NA	NA	23.0	0.0	NA	NA	R 25.4	R -33.6 R -44.7	0.0	R 1,291.9 R 1,349.1
1972 1973	0.0 0.0	R 2.1	23.0	NA NA	NA NA	NA NA	NA NA	23.0 22.9	0.0	NA NA	NA NA	R 25.1	R -50.7	0.0 0.0	H 1,349.1
1974	0.0	R 6.9 R 5.8	22.9 26.1	NA	NA	NA	NA	26.1	0.0 0.0	NA	NA NA	R 29.8 R 32.0	R -85.4 R -75.7	0.0	R 1,384.7 R 1,361.0
1975	0.0	R 4 4	27.1	NA	NA	NA	NA	27.1	0.0	NA	NA	H 31 5	R -74.6 R -93.6 R -97.9	0.0	H 1 372 3
1976 1977	0.0 0.0	R 2.5 R 1.5	31.9 33.2	NA NA	NA NA	NA NA	NA NA	31.9 33.2	0.0 0.0	NA NA	NA NA	R 34.4 R 34.8	R -93.6	0.0 0.0	R 1,434.8 R 1,476.1
1978	0.0	R 3.5	39.1	NA	NA	NA	NA	39.1	0.0	NA	NA	H 42.6	R -65.6 R -68.1	0.0	H 1.517.5
1979 1980	0.0 0.0	R 3.8 R 1.9	44.6	NA NA	NA NA	NA NA	NA NA	44.6	0.0	NA NA	NA NA	H 48 3	H -68.1	0.0	H 1 491 6
1981	0.0	R 2.3 R 5.7	25.1 23.5	0.0	NA NA	NA NA	0.0	25.1 23.5	0.0	NA NA	NA NA	R 27.0 R 25.8	R -59.3 R -57.6 R -65.0 R -72.8	0.0 0.0	R 1,382.6 R 1,327.2
1982	0.0	R 5.7	26.6	0.1	NA	NA	0.0	26.6	0.0	NA	NA	H 32.3	R -65.0	0.0	R 1,317.4 R 1,314.4
1983 1984	0.0 10.0	R 5.9 R 5.4	26.0 30.5	0.1 0.1	NA NA	NA NA	0.0 0.0	26.0 30.6	0.0 0.0	NA 0.0	0.0 0.0	R 31.9 R 36.0	n -72.8 R -108.8	0.0 0.0	<sup>n</sup> 1,314.4 R 1 336.8
1985	85.3	R 10.2	31.1	0.1	NA	NA	0.0	31.3	0.0	0.0	0.0	H // 1 5	R -108.8 R -104.0 R -65.2 R -48.8	0.0	R 1,336.8 R 1,365.0
1986 1987	75.9 65.6	R 6.8 R 4.9	28.5 25.7	0.1 0.2	NA NA	NA NA	0.0 0.0	28.6 25.9	0.0 0.0	0.0 0.0	0.0 0.0	R 35.4 R 30.8	H -65.2	0.0 0.0	R 1,364.5 R 1,393.6
1988	94.7	R 5 2	25.7 27.5	1.1	NA NA	NA NA	0.0	28.6	0.0	0.0	0.0	H 33 8	R -70.0	0.0	R 1.467.5
1989	88.3	H Q 7	24.7	1.6	NA	NA	0.0	26.2	(s)	0.2	0.0	Rana	R -70.0 R -52.9	0.0	R 1,467.5 R 1,471.8
1990 1991	84.6 104.6	R 7.5 R 3.8	17.9 18.6	2.2 2.0	NA NA	NA NA	0.0 0.0	20.1 20.6	(s) (s)	0.2 0.2	0.0 0.0	R 27.8 R 24.7	R 11.0 R 29.2	0.0 0.0	R 1,490.9 R 1,531.1
1992	84.6	R 5 1	19.2	2.3	NA	NA	0.0	21.6	0.1	0.2	0.0	R 26.8	R 44.6 R 131.6 R 52.8 R 45.6	0.0	R 1,520.2 R 1,619.2
1993 1994	88.0 104.6	R 10.9 R 6.5	16.9 15.9	2.7 3.0	NA NA	NA NA	0.0 0.0	19.6 18.9	0.1 0.1	0.2 0.2	0.0 0.0	R 30.7 R 25.7	R 131.6	0.0	R 1,619.2
1994	86.6	H 6.5	16.3	2.0	NA NA	NA NA	0.0	18.9	0.1	0.2	0.0	H 25 0	R 45.6	0.0 (s)	R 1,643.1 R 1,702.7
1996	93.4	R 4.5 R 5.4	17.0	1.1	NA	NA	0.0	18.0	0.1	0.2	0.0	R 22.7 R 20.5	R 46.9 R 22.4	(s) 0.0	R 1,791.6 R 1,789.9
1997 1998	94.0 89.3	R 8.0	14.3 13.3	0.6 0.7	NA NA	NA NA	0.0 0.0	14.9 13.9	0.1 0.1	0.1 0.1	0.0 0.0	R 20.5	H 10 6	(s) (s)	R 1,789.9 R 1,832.9
1999 2000	89 7	P 6.3	13.3 14.0	1.4	NA	NA	0.0 0.0 0.6	14 8	0.1	0.1	0.0 0.0 0.0	R 21.3 R 19.2	R 38.9	(s) 0.0	R 1,875.5 R 1,826.1
2000	104.2	R 6.3 R 2.0 R 3.8	14.0	2.4	NA	NA	0.6	17.0	0.1	0.1	0.0	H 19.2	R 38.9 R 51.3 R 15.5 R 23.9	0.0	H 1,826.1
2001 2002	87.6 87.6	R 4 6	17.8 16.6	2.2 5.3	(s) 0.1	NA NA	1.5 2.0	21.6 23.9	0.1 0.1	0.1 0.1	0.0 0.0	R 25.5 R 28.7	R 23 9	0.0 0.0	R 1,856.0 R 1,868.2
2003 2004	101.1 81.7	R 2.2 R 5.0	17.1 17.6	7.5 8.0	(s) 0.1	NA	3.2 3.4	27.9 29.1	0.1	0.1	0.0 0.0	R 30.3 R 34.3	R -51.9	(s) (s)	R 1,879.3 R 1,884.9
2004 2005	81.7 83.8	R 5.0 R 4.0	17.6 27.1	8.0 9.9	0.1 0.3	NA NA	3.4 5.6	29.1 42.9	0.1 0.1	(s) (s) (s) (s)	0.0 0.0	R 47.0	R -51.9 R -51.0 R -7.1	(s) (s)	<sup>n</sup> 1,884.9 R 1 074 7
2006	105.6	H07	23.8	9.8	0.9	NA	6.8	41.4	0.2 0.2	(s)	0.0	H 122	H - 1 Q	(s)	R 1,974.7 R 1,966.4
2007	98.3	R 4.1 R 7.0	26.0	13.6	1.3	NA	9.2	50.0	0.2	(s)	0.0 0.0 0.0 8 0.7 8 1.7 8 3.2	R 54.4 R 69.7	n 13.2	(s) (s) 0.7	R 1,977.3 R 1,934.4
2008 2009	98.0 107.2	R 6.2	28.4 34.9	19.8 18.6	1.1 1.1	NA NA	12.5 14.4	61.8 69.1	0.2 0.3	(s)	H 0.7	R 77 4	-0.6 R -33 0	2.2	R 1,934.4
2010	94.0	R 6.2 R 5.3	38.5	22.7	0.9	NA	14.1	76.3	0.3	(s) (s)	R 3.2	R 77.4 R 85.1	R -33.0 R 1.0	(s) (s)	R 1,830.5 R 1,909.8
2011 2012	98.1 112.3	R 4.0	33.6 28.7	22.4 21.7	3.2 3.0	0.0 0.0	13.9 12.1	73.0 65.5	0.3	(s) R 0.1 R 0.2	R 4.0 R 4.2 R 4.0	R 81.5 R 72.6	R -50.1 R -35.0 R -23.5 R 16.9 R 32.7	(s)	R 1,854.2 R 1,776.9
2013	87.4	R 2.4 R 3.9	36.3	21.6	4.7	0.0	12.3	74.9	0.4 0.4	R 0.2	R 4.0	R 83 3	R -23.5	(s) (s)	H 1 836 9
2014	97.0	R 2.4	37.5 R 24.6	23.6	4.5	0.0	14.4	80.0	0.4	H 0.4	Han	R 87.0	R 16.9	0.0	H 1.897.8
2015 2016	109.2 98.6	R 2.4 R 5.4 R 4.3	24.6	25.8 26.1	4.1 6.2	0.0 0.0	14.8 15.1	R 69.3 R 70.1	0.4 0.4	R 0.6 R 0.7	R 3.5 R 3.8 R 6.9 R 9.7 R 9.8	R 79.2 R 79.3	R 49 7	0.0 0.0	R 1,811.3 R 1,760.9
2017	86.9	H 4.0	22.7 R 23.5	26.1 26.0	5.1	0.0	15.5	70.1	0.4	R 0.7 R 0.9	R 6.9	R 79.3 R 82.3	R 49.7 R -33.3 R 17.8	0.0	R 1,760.9 R 1,721.6
2018 2019	111.4 96.0	R 2.8 R 7.6	28.2	25.6 25.7	4.7 3.7	0.0 0.0	15.6 15.0	74.0 R 72.5	0.4 0.4	R 1.1 R 1.4	H 9.7	R 88.0 R 91.5	H 17.8 R 47.8	0.0 0.0	R 1,835.5 R 1,770.0
2020	80.9	R 6.4	28.1 E 21.5	23.7	4.8	0.0	13.9	н 63.9	0.4	H16	R 11.4 R 22.3	H 83.7	R 63.3 R 45.2	0.0	R 1,659.3 R 1,700.1
2021	44.8	R 5.8	H 19.1	25.8	4.1	0.0	14.7	H 63.6	0.4	H 1.9	R 22.3	R 94.0	R 45.2	0.0	R 1,700.1
2022	92.6	4.7	22.4	26.2	3.9	0.0	16.3	68.7	0.4	2.4	25.7	101.8	45.7	0.0	1,733.4

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Missouri

		İ									Bior	iiass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power g,h					Electricity			
Year	Thousand short tons	Billion cubic feet	iuo. viii		1	housand barrels		Cilio.		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	Electrical system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	3,835	231	12,638	5,994	1,249	40,807	3,029	10,815	74,532	0					11,429			
1970	2,017	367	16,077	11,771	8,074	56,041	3,437	11,238	106,638	0					25,779			
1980	1,677	303	17,852	9,121	6,268	58,966	1,398	10,604	104,209	0					42,652			
1990	1,605	235	20,981	6,874	6,647	63,994	613	9,640	108,748	0					53,925			
2000 2005	1,117 1,267	254 236	28,226 32,882	10,820 10,795	4,906 6,599	73,852 76,998	109 110	9,054 13,261	126,967 140,644	0					72,643 80,940			
2005	1,282	220	33,336	8,917	6,574	77,084	70	13,464	139,444	0					82,015			
2007	1,281	231	34,225	10,573	6,339	77,817	38	11,665	140,656	0					85,533			
2008	1,191	253	29,999	9,502	5,586	76,835	43	10,129	132,094	0					84,382			
2009	936	235	29,596	8,180	3,635	76,918	31	8,178	126,538	0					79,897			
2010 2011	924 676	240 235	31,128 30,902	7,660 7,011	5,221 5,232	76,736 73,826	28 19	6,764 6,415	127,536 123,405	0					86,085 84,255			
2012	1,105	205	29,551	5,955	4,932	72,202	6	6,059	118,705	0					82,435			
2013	1,185	240	29,676	6,739	4,709	73,284	4	5,525	119,937	Ö					83,407			
2014	1,190	262	31,151	7,600	4,431	73,859	2	5,764	122,808	0					83,878			
2015	1,018	229	31,996	6,208	4,595	75,195	2	6,474	124,470	0					81,504			
2016 2017	767 923	215 215	32,459 31,805	5,716 5,757	5,117 5,490	76,859 76,073	18 3	R 4,191 R 3.607	R 124,361 R 122,735	0					78,618 76,461			
2017	923 851	260	31,805	6,844	5,490	76,073 75,231	(s)	R 4,082	R 124,164	0					76,461 82,056			
2019	831	253	32,588	7,365	5,613	74,467	0	R 4.721	R 124,754	Ö					78,858			
2020	815	229	31.559	6,736	3,101	68,716	5	R 5,239	R 115,356	0					75,726			
2021	940	233	R 31,025	6,576	4,050	74,436	1	R 5,099	R 121,187	0					77,763			
2022	857	239	29,706	7,282	4,678	75,207	1	4,390	121,264	0					80,306			
									Trillion	Btu								
1960	90.4	238.8	73.6	23.0	7.0	214.4	19.0	64.6	401.6	0.0	33.6	NA	NA	NA	39.0	803.4	R 78.6	R 882.1
1970	45.9	369.1	93.6	45.0	45.7	294.4	21.6	69.6	569.9	0.0	23.6			NA	88.0	1,096.5	R 180.2	R 1,276.7
1980	37.8	307.9	104.0	34.0	35.5	309.8	8.8	64.7	556.7	0.0	25.1			NA	145.5	1,073.0	R 309.6	R 1,382.6
1990 2000	36.6 25.6	237.7 258.1	122.2 164.2	25.7 40.0	37.6 27.8	336.2 384.1	3.9 0.7	59.8 56.5	585.3 673.3	0.0	17.9 13.2			0.2 0.1	184.0 247.9		R 426.9 R 608.0	R 1,490.9 R 1,826.1
2005	29.0	240.9	191.3	39.3	37.4	399.8	0.7	81.3	749.8	0.0	27.1			(s)	247.9		R 645.7	R 1.974.7
2006	29.2	224.7	193.4	32.7	37.3	399.7	0.4	82.0	745.6	0.0	23.7			(s)	279.8	1,310.9	R 655.5	R 1,966.4
2007	28.9	236.0	198.0	38.5	35.9	400.1	0.2	70.7	743.4	0.0	25.8	9.2	0.2	(s)	291.8	1,336.6	<sup>R</sup> 640.8	R 1,977.3
2008	26.8	254.7	173.4	35.7	31.7	392.3	0.3	60.8	694.2	0.0	28.0			(s)	287.9	1,305.5	R 628.9	R 1,934.4
2009	21.1	236.4	171.0	30.5	20.6	391.5	0.2	49.6	663.4	0.0	34.2			(s)	272.6	1,242.5	R 588.5 R 633.4	R 1,831.0 R 1,910.1
2010 2011	21.0 15.2	241.2 236.9	179.8 178.3	29.4 26.9	29.6 29.7	388.8 373.8	0.2 0.1	40.6 39.5	668.4 648.3	0.0	37.9 33.0		0.3 0.3	(s) (s)	293.7 287.5	1,276.7 1,235.1	R 618.9	1,910.1 R 1,854.0
2012	24.9	207.0	170.4	20.9	28.0	365.5	(s)	36.8	623.6	0.0	28.0		0.4	R 0.1	281.3	R 1,177.3	R 599.6	R 1,776.9
2012	26.4	243.2	171.0	25.9	26.7	370.8	(s)	33.5	627.9	0.0	35.6			R <sub>0.2</sub>	284.6	R 1,230.5	R 606.9	R 1,837.4
2014	26.4	265.5	179.5	29.2	25.1	373.7	(s)	34.8	642.4	0.0	36.6	14.4	0.4	R 0.4	286.2	R 1,272.0	R 626.4	R 1,898.4
2015	22.7	231.1	184.4	23.8	26.1	380.3	(s)	38.8	653.4	0.0	R 23.6			R 0.5	278.1	R 1,224.4	R 588.3	R 1,812.7
2016 2017	17.3 20.9	219.6 216.2	186.9	22.0	29.0 31.1	388.5 384.4	0.1	25.9 R 22.6	652.3 R 643.4	0.0	21.7 R 22.4		0.4	R <sub>0.6</sub> R <sub>0.7</sub>	268.2 260.9	R 1,195.3 R 1,180.3	R 566.8 R 543.0	R 1,762.1 R 1,723.3
2017	20.9	216.2 265.6	183.1 188.5	22.1 26.3	31.1 29.9	384.4 380.2	(s) (s)	R 25.2	R 650.2	0.0	27.2			R 0.8	260.9	R 1,258.8	R 578.2	R 1,837.0
2019	18.6	258.0	187.7	28.3	31.8	376.2	0.0	R 28.8	R 652.8	0.0	R 27.2			R 1.0	269.1	R 1.241.9	R 530.4	R 1,772.3
2020	18.3	R 233.8	181.7	25.9	17.6	347.2	(s)	R 32.9	R 605.1	0.0	R 20.5	13.9		R 1.3		R 1,151.7	R 509 0	R 1,660.7
2021	21.1	R 237.5	R 178.8	25.3	23.0	375.9	(s)	R 31.2	R 634.2	0.0	<sup>R</sup> 18.3		0.4	<sup>R</sup> 1.5	265.3	R 1,192.9	R 508.1	R 1,701.0
2022	19.2	244.3	171.3	28.0	26.5	379.7	(s)	27.2	632.7	0.0	21.7	16.3	0.4	1.8	274.0	1,210.2	524.1	1,734.3

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Missouri

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960 1965 1970 1975 1980 1985 1990	699	111	1.330	4,400	240	5,970				4.223			
1965	699 172 52	130 157	1,330 1,056 1,312	5,763 8,388	138 69 28	6,957				4,223 5,977 9,672			
1970	52	157	1,312	8,388	69	9,769				9,672			
1975	47	155 143 128	1,435 1,246 847	8 945	28	6,957 9,769 10,409 5,989 4,224 4,378				13,654			
1980	17	143	1,246	4,686 3,282	57 95	5,989				18,648			
1985	34 57	128 116	847 412	3,282 3,937	95	4,224				18,483			
1990	27	125	412	5,937 5,483	29 32 69	4,370 5.052				25,002			
1995 2000	19	115	436 308	5,483 5,619	69	5,952 5,996				29,581			
2005	17	107	161	4 561	79	4 802				34 412			
2006	19	95	151	4,022	66	4,239				33,880			
2005 2006 2007	19 20	107 95 102	161 151 143	4,561 4,022 4,567	79 66 54	4,802 4,239 4,764				13,654 18,648 18,483 21,652 25,409 29,581 34,412 33,880 35,872 35,390 34,221 37,302 35,941 34,337 35,318 35,793 33,912 34,355 33,051 37,463			
2008 2009 2010	0	114	103 76 64 55 47	5,905 5,080 4,862	23 25 32	6,030 5,181 4,957 4,367 3,364 3,980 4,488 3,759 3,650 3,173 4,329 5,151				35,390			
2009	0	106 107	76	5,080	25	5,181				34,221			
2010	0	107	64	4,862	32	4,957				37,302			
2011	0	103	55	4,299	13	4,367				35,941			
2012 2013	0	83 106	4/	3,313 3,932	4	3,364				34,337			
2013	0	106	44	3,932	5	3,980				35,318			
2014 2015	0	116 96	42 27	4,439 3,726	6	4,400 3,750				33,793			
2016	0	87	42 27 20	3,620	11	3,759				34 355			
2017	0	87	16	3 153	4	3 173				33 051			
2017 2018	ŏ	114	16 22 13	3,153 4,301 5,131	5	4.329				37.463			
2019	Ö	111	13	5,131	7	5,151				35,691			
2020 2021	0	100	9	3,991 3,517	6	4,006				34,950 35,668			
2021	0	101	33 35	3,517	6	4,006 3,556 5,159				35,668			
2022	0	104	35	5,117	6	5,159				37,245			
							Trillion Btu						
1960 1965 1970	16.0	115.0	7.7	16.9	1.4	26.0	25.9	NA NA NA	NA	14.4 20.4 33.0 46.6 63.6	197.3	R 29.1	R 226.4
1965	3.9	132.1 157.7	7.7 6.1	22.1	0.8	29.1 40.3	18.0	NA	NA	20.4	203.5 245.5	R 40.1	R 243.6
1970	1.1	157.7	7.6	32.2	0.4	40.3	13.5 14.1	NA	NA	33.0	245.5	H 67.6	H 313.1
1975 1980	1.0	156.5	8.4	34.4	0.2	42.9	14.1	NA	NA	46.6	261.0	<sub>B</sub> 95.1	H 356.1
1980	0.4	145.7	7.3	18.0	0.3	25.6	18.2	NA	NA	63.6	253.5	n 135.4	n 388.8
1985 1990 1995	0.8 1.2 0.6	156.5 145.7 130.3 117.2 126.0	7.3 4.9 2.4 2.5	12.6	0.5	18.1	23.1 13.4 11.7	NA	NA	63.1 73.9 86.7 100.9 117.4 115.6 122.4 120.8 116.8	261.0 253.5 235.2 223.6 249.0	n 128.2	n 363.3
1990	1.2	117.2	2.4	15.1 21.1	0.2 0.2	17.7 23.8	13.4	(s) 0.1	0.2 0.2	73.9 86.7	223.6	H 208 7	11 395.0 R 457.7
2000	0.4	117.0	1.8	21.1	0.4	23.0	9.4	0.1	0.1	100.7	251.5	R 247 6	R 490 1
2000 2005	0.4	117.2 109.0 97.3 103.6 114.7	1.8 0.9 0.9 0.8 0.6	21.6 17.5	0.4	23.8 18.9	18.5	0.1	(s)	117.4	251.5 264.3	R 274 5	R 538 q
2006	0.5	97.3	0.9	15.4	0.4	16.7	16.4	0.2	(s)	115.6	246.7	R 270.8	R 517.4
2006 2007 2008	0.5	103.6	0.8	17.5	0.4 0.3	16.7 18.7 23.4 20.1	18.1 20.3	0.2	(s) (s)	122.4	246.7 263.4 279.4	R 268.7	R 532.2
2008	0.0	114.7	0.6	22.7	0.1	23.4	20.3	0.2	(s)	120.8	279.4	R 263.8	R 543.2
2009	0.0			19.5	0.1	20.1	26.1	0.3	(s)	116.8		R 252.1	R 522.3
2010 2011 2012	0.0 0.0 0.0	108.0 103.4 83.8 107.9	0.4	18.7	0.2	19.2 16.9 13.0	28.0 27.2 22.7	0.3	(s)	127.3	282.8	R 274.5	R 557.3
2011	0.0	103.4	0.3	16.5	0.1	16.9	27.2	0.3	(s)	122.6	H 270.4	H 264.0	H 534.4
2012	0.0	83.8	0.3	12.7	(s)	13.0	22.7	0.4	0.1	117.2	237.1	n 249.8	n 486.8
2013	0.0 0.0	107.9	0.4 0.3 0.3 0.3 0.3	15.1	(s)	15.4 17.3	29.6 30.0	0.4	R 0.1 R 0.2 R 0.2 R 0.3 R 0.4 R 0.4	127.3 122.6 117.2 120.5 122.1 115.7 117.2 112.8 127.8 121.8 119.3 121.7	270.2 282.8 R 270.4 237.1 R 273.9 R 287.0 R 245.2 R 236.9 R 227.5	R 29.1 R 40.1 R 67.6 R 95.1 R 135.4 R 128.2 R 171.4 R 208.7 R 247.6 R 274.5 R 270.8 R 268.7 R 263.8 R 252.1 R 274.5 R 264.0 R 249.8 R 257.3 R 244.8 R 247.7 R 264.0 R 244.8 R 247.7 R 264.0 R 244.8 R 247.7 R 264.0 R 243.1	R 226.4 R 243.6 R 343.1 R 356.1 R 388.8 R 363.3 R 395.0 R 457.7 R 499.1 R 538.9 R 517.4 R 522.2 R 543.2 R 557.3 R 557.3 R 554.3 R 486.8 R 530.0 R 486.8 R 554.3 R 490.0 R 484.6 R 485.5 R 485.5 R 545.5
2014	0.0	117.1	0.2	17.0 14.3	(S) (S)	17.3	30.0 18.1	0.4 0.4	R 0.2	122.1 115.7	201.0 R 245.2	207.3 R 244 9	T 254.3
2015 2016 2017	0.0	96.3 89.3 87.3	0.2 0.1	13.0	0.1	14.5	15.1	0.4	R 0.2	117.7	R 236 a	R 244.0	R 484 6
2017	0.0	87.3	0.1	13.9 12.1	(s)	14.1 12.2	15.7 14.4	0.4 0.4	R 0.4	112.8	R 227.5	R 234.7	R 462.2
2018	0.0	116.5	0.1	16.5	(s)	16.7	19.8	0.4	R 0.4	127.8		R 264.0	R 545.5
2018 2019	0.0	113.0	0.1	19.7	(s)	16.7 19.8	R 19.6	0.4	R 0.6	121.8	R 275.1	R 240.0	R 515.1
2020 2021	0.0	102.2 103.6 105.8	0.1	15.3 13.5 19.7	(s) (s)	15.4 13.7 19.9	19.8 R 19.6 R 12.7 R 11.5	0.4	R 0.7 R 0.9 1.2	119.3	R 275.1 R 250.6 R 251.7	R 234.9	R 485.5
2021	0.0 0.0	103.6	0.2 0.2	13.5	(s)	13.7	<sup>H</sup> 11.5	0.4	H 0.9	121.7	H 251.7	H 233.1	<sup>H</sup> 484.8
2022	0.0				(s)		15.2	0.4			269.5	0.40.7	E40 °

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Missouri

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	486	33	1,101	1,114	1,507	113	1 366	5,200	NA			NA	3 314			
1965	129	33 41	873	1,459	865	113 133	1,366 1,508	4,839	NA			NA	3,314 4,473			
1970 1975	41 109	88 91	1,085 1,187	2,123 2,264	433 179	153 159	1,654 764	5,448 4.554	NA NA			NA NA	6,168 7,639			
1980 1985	109 65 122	91 76	1,001 1,521	1,186 831	171	223 262	764 554 121	4,554 3,135 2,768	NA NA			NA	12,986			
1985	227	60 59 65	1,026	997	33 8	239 99	60	2,768 2,329 2,688	NA 0			NA 0	15,205 19,335			
1995	183	65	1,190	1,388	10	99 263	1	2,688	0			0	22,514			
2000 2005	157 198	63 60	1,118 520	1,422 843	22 30	263 290	31 17	2,857 1,700	0			0	26,962 29,640			
2006	197	60 57	435	1,089	17	57	9	1,607	0			0	29,800			
2007 2008	176 198	59 65	368 543	1,037 1,714	9	58 58	6 1	1,478 2,319	0			0	31,126 31,118			
2009	149	61	581	1,161	6	58	1	1,806	0			(s)	30,605			
2010 2011	156 122	61 62	524 455	946 863	7	57 57	4	1,539 1,378	0			(s)	31,431 30,962			
2012	90	55	638	866	2	57	(s)	1,564	Õ			12	30,483			
2013 2014	99 95	65 73	694 798	1,043 1,192	2	59 56	0	1,798 2,049	0			26 64	30,515 30,665			
2015	67	61	953	944	2	1,300	Ö	3,199	Õ			86	30,535			
2016 2017	55 25	57 58	852 753	823 1,020	2 2	1,318 1,338	0	2,995 3,112	0			93 108	30,728 30,177			
2018	12	69	794	1.326	3	1,352	ŏ	3,474	Ö			112	31,179			
2019 2020	9	68 60	633 535	1,122 1,486	3 2	1,360 1,370	0	3,118 3,393	0			135 158	30,133 27,931			
2021	12	62	669	1,904	2	1,390	Ö	3,965	ŏ	==	==	172	28,987	==		
2022	12	66	709	1,103	2	1,428	0	3,242	0			184	29,791			
-									lion Btu							
1960 1965	11.1 3.0	33.8 41.8	6.4 5.1	4.3 5.6	8.5 4.9	0.6 0.7	8.6 9.5	28.4 25.8	NA NA	0.5 0.3	NA NA	NA NA	11.3 15.3	85.2 86.1	R 22.8 R 30.0 R 43.1	R 108.0 R 116.2
1970	0.9	88.3	6.3	8.2	2.5	0.8	10.4	28.1	NA	0.3	NA	NA	21.0	138.6	R 43.1	H 181 7
1975 1980	2.3 1.4	91.5 77.3	6.9 5.8	8.7 4.6	1.0 1.0	0.8 1.2	4.8 3.5	22.3 16.0	NA NA	0.3 0.5	NA NA	NA NA	26.1 44.3	142.4 139.4	R 53.2 R 94.3	R 195.6 R 233.7
1985	2.8 5.0	61.4	8.9	3.2	0.2	1.4	0.8	14.4	NA	0.5	NA	NA NA	51.9	130.9	R 105 4	R 236.3
1990 1995	5.0 4.1	60.0 65.5	6.0 6.9	3.8 5.3	(s) 0.1	1.3 0.5	0.4 (s)	11.5 12.8	0.0 0.0	1.5 1.6	0.0 0.0	0.0 0.0	66.0 76.8	143.9 161.0	R 153.1 R 184.9	R 297.0 R 345.9
2000	3.5	63.6	6.5	5.5	0.1	1.4	(S) 0.2	13.7	0.0	1.6	0.0	0.0	92.0	174.1	H 225.7	n 399.8
2005	4.6	61.6	3.0	3.2	0.2	1.5	0.1	8.0	0.0	3.0	0.0	0.0	101.1	178.3	R 236.5	R 414.8
2006 2007	4.6 4.1	57.9 60.4	2.5 2.1	4.2 4.0	0.1 0.1	0.3 0.3	0.1 (s)	7.2 6.5	0.0 0.0	2.8 2.9	0.0 0.0	0.0 0.0	101.7 106.2	174.0 180.1	R 238.2 R 233.2	R 412.2 R 413.2
2008	4.5	65.4	3.1	6.6	(s)	0.3	(s)	10.0	0.0	3.1	0.0	0.0	106.2	189.2	R 221 a	R /21 1
2009 2010	3.4 3.6	61.8 61.5	3.4 3.0	4.5 3.6	(s) (s)	0.3 0.3	(s) (s)	8.1 7.0	0.0 0.0	3.7 3.6	0.0 0.0	(s) (s)	104.4 107.2	181.5 183.0	R 225.4 R 231.3	R 406.9 R 414.2
2010	2.8	62.8	2.6	3.3	(s)	0.3	0.0	6.2	0.0	3.5	0.0	(s)	107.2	181.0	R 227 4	R 408 4
2012	2.1	55.2	3.7	3.3	(s)	0.3	(s) 0.0	7.3	0.0	3.1	0.0	R (s)	104.0	171.7	R 221.7	n 393 4
2013 2014	2.3 2.2	65.4 73.9	4.0 4.6	4.0 4.6	(s)	0.3 0.3	0.0 0.0	8.3 9.5	0.0 0.0	3.8 4.5	0.0 0.0	R 0.1 R 0.2	104.1 104.6	R 184.0 R 194.9	R 222.0 R 229.0	R 406.0 R 423.9
2015	1.5	61.9	5.5	3.6	(s)	6.6	0.0	15.7	0.0	3.4	0.0	Ros	104.2	H 187.0	R 220.4	n 407.4
2016	1.3	58.3	4.9	3.2 3.9	(s)	6.7	0.0	14.7	0.0	3.9	0.0	R 0.3 R 0.4	104.8 103.0	R 183.3 R 181.2	R 221.5 R 214.3	R 404.9 R 395.5
2017 2018	0.6 0.3	58.2 70.9	4.3 4.6	3.9 5.1	(S) (S)	6.8 6.8	0.0 0.0	15.0 16.5	0.0 0.0	4.0 4.3	0.0 0.0	R <sub>0.4</sub>	103.0 106.4	rt 198 8	R 219.7	<sup>rt</sup> 418.5
2019	0.2	69.4	3.6	4.3	(s)	6.9	0.0	14.8	0.0	3.8	0.0	R 0.5	102.8	R 191 5	R 219.7 R 202.7	R 394 2
2020 2021	0.1 0.3	61.7 R 63.7	3.1 3.9	5.7 7.3	(s) (s)	6.9 7.0	0.0 0.0	15.7 18.2	0.0 0.0	4.0 3.7	0.0 0.0	R 0.5 R 0.6	95.3 98.9	R 177.4 R 185.4	R 187.7 R 189.4	R 365.2 R 374.8
2022	0.3	67.4	4.1	4.2	(s)	7.0	0.0	15.5	0.0	3.9	0.0	0.6	101.6	189.4	194.4	383.8
					.,											

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Missouri

					Petro	leum				Bior	nass					_	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	2,605	79 114	5,722 5,097	437	3,074	1,630 1,710	6,556	17,419	0				NA	3,890			
1965 1970	2,534 1,921	114 110	5,097 5,689	423 1,175	3,224 2,767	1,710 1,620	8,356 9,822	18,810 21,073	0				NA NA	5,872 9,939			
1975	2.065	90	5,765	1,712	2,707	1 242	10,060	21,073	0				NA NA				
1980	1,595 1,798	78	4,782	3 182	1.866	703	9 281	19.814	0				NA	11.018			
1985 1990	1,798 1,321	66 55	4,146 3,494	1,333 1,823	1,076 663	703 557 519	8,359 8,522	15,471 15,022	0				NA 0	12,625 12,937			
1995	1,102	69	3,018	4,102	1,676	319	8,235	17,351	0		==	==	0	14,321	==		==
2000	941	68	3,641	3,712	902	72	7,892	16,220	0				0	16,080			
2005 2006	1,052 1,065	66 66	5,293 5,187	5,277 3,645	2,144 2,247	79 51	12,143	24,937 23,583	0				0	16,869 18,316			
2006	1,086	68	5,187	4,810	1,214	29	12,453 10,650	23,583	0				0	18,515			
2008	993	67	5,036	1,623	931	29 42 25 23	9.240	16,871	ŏ				ŏ	17.850			
2009	787	63	4,108	1,668	1,036	25	7,373	14,209	0				(s)	15,050			
2010 2011	768 554	66 63	4,202 3,768	1,807 1,804	1,007 968	19	6,014 5,727	13,054 12,286	0				(S)	17,330 17,330			
2012	1,014	63 63 63	3,729 3,711	1,736	555 574	6	5,448	11,474	ŏ				(s)	17,330 17,594 17,551			
2013	1,085	63	3,711	1,711	574	4	4,899	10,899	0				(s)	17,551			
2014 2015	1,095 951	67 66	4,119 4,485	1,912 1,464	396 946	2	5,123 _ 5,782	11,552 _ 12,679	0				1	17,399 17,036			
2016	711	64	5,123	1,195	920	17	R 3 524	R 10 779	ő				i	13.513			
2017	898	63	4,830	1,572	927	3	Rainne	H 10 330	0				1	13,211			
2018 2019	838 822	67 65	5,203 4,370	1,149 1,064	947 939	(s) 0	R 3,496 R 4,153	R 10,796 R 10,526	0				4	13,390 13,010			
2019	809	64	4,370	1,064	959	5	R / 716	R 11 868	0				7	12,824			
2021	928	64	4,758	1,113	947	Ĭ	H 4,120	R 10,938	Ö				10	13,087			
2022	845	65	4,809	1,013	990	1	3,404	10,217	0				12	13,246			
									Trillion Bt	u							
1960	62.2	81.7	33.3	1.7	16.1	10.2	41.3	102.7	0.0		NA	NA	NA	13.3	267.1	R 26.8 R 39.4	R 293.9 R 355.3 R 390.9
1965 1970	59.9 43.8	116.4 110.4	29.7 33.1	1.6 4.3	16.9 14.5	10.8 10.2	51.8 61.4	110.7 123.6	0.0	8.7 9.9	NA NA	NA NA	NA NA		315.9 321.5	R 69.5	R 300 a
1975	45.7	90.7	33.6	6.0	14.2	7.8	62.7	124.4	0.0	12.7	NA	NA	NA	40.2	313.7	R 82.1	n 395.8
1980	36.0	79.3	27.9	11.2	9.8	4.4	57.0	110.3	0.0		NA	NA	NA		269.6	R 80.0	H 349.5
1985 1990	41.2 30.4	66.8 55.1	24.2 20.4	4.6 6.3	5.7 3.5	3.5 3.3	51.5 53.1	89.3 86.5	0.0 0.0		0.0 0.0	NA 0.0	NA 0.0		247.8 219.3	R 87.5 R 102.4	R 335.4 R 321.7
1995	25.5	69.4	17.6	14.2	8.7	2.0	52.5	95.0	0.0		0.0	0.0	0.0	48.9	241.5	H 1176	R 359.1
2000	21.8	69.5	21.2	12.7	4.7	0.5	49.6	88.6	0.0	2.2	0.6	0.0	0.0	54.9	237.3	R 134.6	R 371.9
2005 2006	24.0 24.2	67.7 67.0	30.8 30.1	18.1 12.5	11.1 11.6	0.5 0.3	74.7 76.0	135.3 130.6	0.0 0.0		5.6	0.0 0.0	0.0 0.0	57.6 62.5	295.7 295.6	R 134.6 R 146.4	R 430.3
2007	24.4	69.2	33.6	16.3	6.2	0.3	64.7	121.0	0.0	4.8	6.8 9.2	0.0	0.0		291.7	R 146.4 R 138.7	R 442.0 R 430.4
2008	22.4	67.2	29.1	5.5	4.8	0.3	55.5	95.1	0.0	4.7	12.5	0.0	0.0	60.9	262.8	R 133.0 R 110.9 R 127.5	R 395.8 R 342.0 R 362.9
2009	17.7	63.8 65.9	23.7	5.5	5.3	0.2	44.8	79.5	0.0		14.4 14.1	0.0	(s) (s)	51.4	231.1 235.4	H 110.9	H 342.0
2010 2011	17.4 12.4	63.6	24.3 21.7	6.9 6.9	5.1 4.9	0.1 0.1	36.1 35.4	72.6 69.1	0.0	6.2	13.9	0.0	(S)	59.1 59.1	235.4	R 127.3	R 347.7
2012	22.8	63.0	21.5	6.7	2.8	(s)	33.2	64.2	0.0	2.2	12.1	0.0	(s)	60.0	224.4	H 128 N	R 352.4
2013	24.1	64.1	21.4	6.6	2.9	(s) (s) (s) 0.1	29.8	60.7	0.0	2.2	12.3	0.0	(s)	59.9	223.2	H 107 7	R 350 9
2014 2015	24.3 21.2	68.0 66.3	23.7 25.8	7.3 5.6	2.0 4.8	(s)	31.0 34.7	64.1 71.0	0.0 0.0		14.4 14.8	0.0 0.0	(s)	59.4 58.1	232.2 233.4	R 129.9 R 123.0 R 97.4	R 362.1 R 356.4
2016	16.0	65.1	29.5	4.6	4.7	0.1	21 0	60.7	0.0	2.1	15.1	0.0	(s)	46.1	205.2	R 97.4	H 302 6
2017	20.3	63.5	27.8	6.0	4.7	(s) (s)	R 19.0	R 57.6	0.0	3.9	15.5	0.0	(s)	45.1	R 205.9	H 93.8	R 299.7 R 306.7
2018 2019	18.8 18.4	68.2 66.9	30.0 25.2	4.4 4.1	4.8 4.7	(s) 0.0	R 21.8 R 25.4	R 60.9 R 59.4	0.0		15.6 15.0	0.0	(s) R (s)	45.7 44.4	R 212.4 R 207.8	R 94.3 R 87.5	H 306.7 R 295.3
2019	18.2	65.0	28.5	4.1	4.7	(s)	R 29 8	R 67.9	0.0		13.9	0.0	R (s) R (s)	44.4	R 212.6	R 86 2	R 298 8
2021	20.9	65.7	27.4	4.3	4.8	(s) (s) (s)	R 25.6	62.1	0.0	3.1	14.7	0.0		44.7	211.2	R 86.2 R 85.5	R 298.8 R 296.7
2022	18.9	66.2	27.7	3.9	5.0	(s)	21.6	58.2	0.0	2.5	16.3	0.0	(s)	45.2	207.4	86.4	293.8

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

M Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Missouri

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	45 8	8	1,844	4,485	43	1,249	669	37,620	34	45,943	2			
1965		9	2,323 179	4,485 6,685 7,990	43 47	1,249 3,625	669 701 735	37,620 41,658	154 163	45,943 55,191 70,349	0			
1970 1975	3 (s)	13 7	179 184	7,990 8,721	85 74	8,074 8,311	735 793	53,122 59,476	163	70,349 77,698	0			
1980	0	6	184 162	10,824	68	6,268	793 932	56,877	142	75,272	ŏ			
1985 1990	0	4	135 126	13,271 16,049	138 117	5,889 6,647	848 955	58,698	38 34	79,017	0			
1990	0	5 7	109	19,195	117	11,425	955 911	63,092 67,155	34 21	87,019 98,928	16		 	
2000	Ö	8	98	23.159	66	4.906	973	72.687	6	101.894	19			
2005	0	3	188	26,907	113	6,599	821 800	74,563	14	109,206	19			
2006 2007	0	2	128 126	27,563 27,909	161 159	6,574 6,339	800 826	74,780 76,546	9	110,014 111,907	19 20			
2008 2009	ŏ	7	97	24,318 24,832	260	5,586 3,635	767	75,846 75,825	0	106,873 105,342	24			
2009	0	4	85	24,832	271	3,635	689	75,825	5	105,342	21			
2010 2011	0	6 7	102	26,338 26,624	44 46	5,221 5,232	609 576	75,672 72,801	0	107,986 105,374	22			
2012	ŏ	5	96 87	25,136	46 40	4,932	576 518	71,590	ŏ	102.303	22 22			
2013	0	6	79	25,227	53	4,709	541	72,651	0	103,259 104,719	22 22			
2014 2015	0	6	68 70	26,193 26,531	53 58 73	4,431 4,595	541 563 614	73,407 72,950	0	104,719	22 21			
2016	0	7	69	26.464	79	5.117	R 585	74.621	(s)	R 106,936	21			
2017	Ó	.7	69 73 76	26,206	12	5,490	R 585 R 531 R 502 R 486	73,808	(s)	R 106,936 106,119 R 105,566	23			
2018 2019	0	10 9	76 73	26,719 27,572	68 48	5,268 5,613	n 502 R 486	72,933 72,168	Ó	R 105,566 R 105,960	24 24			
2019	0	5	73 69 76	26,064	17	3,101	H 446	66,392	0	R 96.088	20			
2020 2021	Õ	R <sub>4</sub>	76	26,064 R 25,566	42	4,050	R 460	72,098	(s)	R 96,088 R 102,728	21			
2022	0	5	79	24,153	48	4,678	476	72,789	(s)	102,647	25			
								Ilion Btu						
1960	1.1	8.2 9.1	9.3	26.1	0.2	7.0	4.1	197.6	0.2	244.4	(s) 0.0	253.8	(s)	253.8
1965 1970	0.2 0.1	12.8	11.7 0.9	38.9 46.5	0.2 0.3	20.4 45.7	4.3 4.5	218.8 279.0	1.0 1.0	295.3 378.0	0.0	304.6 390.9	0.0 0.0	304.6 390.9
1975	(s) 0.0	7.6	0.9	50.8	0.3	47.0	4.8	312.4	0.9	417.2	0.0	424.7	0.0	424.7
1980 1985	0.0 0.0	5.7 4.3	0.8 0.7	63.0 77.3	0.3 0.5	35.5 33.3	5.7 5.1	298.8 308.3	0.9 0.2	404.9 425.5	0.0 0.0	410.6	0.0 0.0	410.6
1990	0.0	4.3 5.4	0.7	93.5	0.5	37.6	5.1	331.4	0.2	425.5 469.6	0.0	430.0 477.1	0.0	430.0 477.1
1995	0.0	7.2	0.5	111.7	0.4	64.8	5.8 5.5	349.5	0.1	532.6	0.1	539.9	0.1	540.0
2000	0.0	7.8	0.5	134.8	0.3	27.8	5.9 5.0	378.0	(s)	547.3	0.1	555.1	0.2	555.3
2005 2006	0.0 0.0	2.7 2.5	0.9 0.6	156.5 159.9	0.4 0.6	37.4 37.3	4.8	387.1 387.7	0.1 0.1	587.5 591.1	0.1 0.1	590.6 594.6	0.2 0.2	590.8 594.8
2007 2008	0.0	2.8 7.3	0.6	161.4	0.6	35.9	5.0	393.6 387.3	(s) 0.0	597.2	0.1	601.4	0.1	601.5
2008 2009	0.0	7.3	0.5	140.6 143.5	1.0	31.7	4.6	387.3	0.0	565.6	0.1	574.1 559.7	0.2	574.3
2009	0.0 0.0	3.9 5.9	0.4 0.5	152.1	1.0 0.2	20.6 29.6	4.2 3.7	386.0 383.4	(s) 0.0	555.7 569.5	0.1 0.1	575.4	0.2 0.2	559.8 575.6
2011	0.0	7.1	0.5	153.6	0.2	29.7	3.5	368.6	0.0	556.0	0.1	563.2	0.2	563.4
2012	0.0	5.0 5.7	0.4	145.0	0.2	28.0	3.1 3.3	362.4	0.0	539.0	0.1	544.1	0.2 0.2	544.3
2013 2014	0.0 0.0	5.7 6.5	0.4 0.3	145.4 151.0	0.2	26.7 25.1	3.3 3.4	367.6 371.4	0.0 0.0	543.6 551.4	0.1 0.1	549.4 558.0	0.2	549.6 558.2
2015	0.0	6.5	0.4	152.9	0.3	26.1	3.7	368.9	0.0	552.2	0.1	558.8	0.2 R 0.1	558.9
2016	0.0	7.0	0.3	152.4	0.3	29.0	3.5 3.2	377.2	(s)	562.8	0.1	569.8	0.2	570.0
2017 2018	0.0 0.0	7.1 10.0	0.4 0.4	150.9 153.9	(s) 0.3	31.1 29.9	3.0	373.0 368.6	(s) 0.0	558.6 556.0	0.1 0.1	565.8 566.1	0.2 0.2	566.0 566.3
2019	0.0	8.8 R 4.9	0.4	158.8	0.3	31.8	2.9	364.6	0.0	558.7	0.1	R 567.6	0.2	567.7
2020	0.0	R 4.9	0.3	150.0	0.1	17.6	2.7	335.4	0.0	506.1	0.1	H 511.1	0.1	R 511.2
2021 2022	0.0 0.0	R 4.5 4.8	0.4 0.4	R 147.4 139.2	0.2 0.2	23.0 26.5	2.9 2.7 R 2.8 2.9	364.1 367.5	(s) (s)	R 540.1 539.0	0.1 0.1	R 544.6 543.9	0.1 0.2	<sup>R</sup> 544.8 544.1
	0.0	7.0	0.4	100.2	0.2	20.3	2.9	007.0	(5)	559.0	0.1	5-0.9	0.2	JTT.1

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Missouri

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	3,674	30	178	0	150	328	0	726		0	NA	NA	0	
1965 1970	5,690	48 63	92 159	0	150 77	168	0	802		Õ	NA	NA	Ō	
1970	10,846	63 26	159 710	0 15	133 375	291	0	927		0	NA	NA	0	
975 980	17,734 23,168	26 15	/10 538	101	375 29	1,100 668	0	1,280 558		0	NA NA	NA NA	0	_
985	22,779	1	538 202	1	16	219	8.030	2,993		0	0	0	0	_
990	24.231	4	207	0	8	215	7,998 8,242	2.192		0	0	0	0	-
995	30,440	13 30 32 32 41	283 592 242	1,114	13	1,410 592 355	8,242	1,919		0	0	0	(s)	-
000	37,183	30	592	0	(s)	592	9,992	600		0	0	0	0	-
005	45,765	32	242	113 0	0	355	8,031	1,159 199		0	0	0	10 3	-
006 007	45,603 44,094	32 41	138 139	0	0	138 139	10,117 9,372	1,204		0	0	0	1	_
800	43.711	43	140	3	Ŏ	143	9 379	2.047		Ö	ŏ	203	194	-
009	42,678	30 40	155 235	71	0	226 254	10,247 8,996	1,817		0	0	499 925	658	-
010	44,692	40	235	19	0	254	8,996	1.539		0	0	925	1	-
011	46,353	38 51 37	145 134 121 193	0	0	145	9,371	1,185 714		0	0	1,178	11	-
012	42,340 44,463	51	134	0	0	134 121	10,718	714 1,136		0	0	1,245	10	-
013 014	43,041	37	103	0	0	193	8,367 9,276	697		0	U a	1,167 1,131	2	-
015	38,468	39	158	0	0	158	10,440	1,595		0	16	1,033	0	-
016	35,594	35 39 52 47	155	Ŏ	Ŏ	155	9,430	1,268		Ö	31	1,122	Ŏ	
)17	39.513	47	155 125	Ö	Ö	125	8.304	1.182		Ö	55	2.032	Ö	-
018 019	37,060 32,764	63 68	194 209	0	Q	194 209	10,655 9,190	828 2,216		Q	90 99	2,835 2,858	Q	-
019	32,764	68	209	0	0	209	9,190	2,216		0	99	2,858	0	-
020 021	30,468 33,810	68	183 483	0	0	183 483	7,742 4,292	1,879 1,697		0	100 116	3,345	0	-
2022	31,083	68 55 76	381	0	0	381	8,875	1,384		0	152	6,534 7,525	0	_
							Trillion Btu							
1960	80.5	31.3 48.5	1.0	0.0	0.9 0.5	2.0	0.0	R 2.5 R 2.7 R 3.2 R 4.4	0.0	0.0	NA	NA	0.0 0.0	R 116.
965	122.6	48.5	0.5	0.0	0.5	1.0	0.0	H 2.7	0.0	0.0	NA	NA	0.0	R 174
970 975	233.4 381.2	63.4	0.9 4.1	0.0 0.1	0.8 2.4	1.8 6.6	0.0	n 3.2	0.0 0.0	0.0	NA NA	NA	0.0 0.0	R 301
975 980	381.2 493.6	63.4 25.7 15.0	4.1 3.1	0.1	0.2	3.9	0.0 0.0	R 1.9	0.0	0.0 0.0	NA NA	NA NA	0.0	R 417 R 514 R 580
985	484.9	1.5	1.2	(s)	0.1	1.3	85.3	H 10 2	0.0	0.0	0.0	0.0	0.0 0.0	R 58
990	503.0 563.4	3.6 12.9	1.2 1.6	(s) 0.0	(s)	1.3 8.4	84.6	R 7.5 R 6.5	0.0	0.0	0.0	0.0	0.0	R 59
995	563.4	12.9	1.6	6.7	(s) 0.1		86.6	R 6.5	0.3	0.0	0.0	0.0	(s) 0.0	R 59 R 67
000	663.3	30.9	3.4	0.0	(s) 0.0 0.0	3.4	104.2	R 2.0 R 4.0 R 0.7 R 4.1	0.7	0.0	0.0	0.0	0.0	ዘ ያበ
005 006	806.7 799.8	32.5 33.3	1.4 0.8	0.6	0.0	2.1	83.8 105.6	n 4.0	0.0 0.1	0.0	0.0 0.0	0.0 0.0	(s) (s)	n 92
006 007	799.8 774.0	33.3 42.0	0.8	0.0 0.0	0.0	0.8 0.8	98.3	R 4.1	0.1	0.0 0.0	0.0	_ 0.0	(S)	R 929 R 941 R 911
00 <i>1</i> 008	774.0 766.1	43.8	0.6		0.0	0.8	98.0	H70	0.2	0.0	0.0	R 0.0	(s) 0.7 2.2	Ron
008 009	766.1 744.5	30.3	0.8 0.9	(s) 0.4	0.0	0.8 1.3 1.5	107.2	R 6.2 R 5.3 R 4.0	0.8	0.0	0.0	R 0.7 P 1.7	2.2	R 91 R 89, R 92
010	780.6	40.9	1.4	0.1	0.0	1.5	94.0	R 5.3	0.7	0.0	0.0	H 3.2	(s)	R 92
011	810.4	38.4	0.8 0.8 0.7	0.0	0.0	0.8	98.1	R 4.0	0.6	0.0	0.0	Ran	(s)	R 95
012	743.4	51.9 38.2	0.8	0.0	0.0	0.8	112.3	R 2.4 R 3.9	0.7	0.0	0.0	R 4.2 R 4.0	(s) (s) 0.0 0.0	R 951 R 911 R 911
013 014	780.1	38.2	0.7	0.0	0.0	0.7	87.4 97.0	n 3.9	0.7 0.9	0.0	0.0 R (s) R 0.1	R 4.0	(s)	H 91
014 015	754.3 673.7	36.1 39.8	1.1 0.9	0.0 0.0	0.0 0.0	1.1 0.9	97.0 109.2	R 2.4 R 5.4	0.9 1.0	0.0 0.0	R (S)	R 3.9 R 3.5	0.0	R 89
016	622.6	53.9	0.9	0.0	0.0	0.9	98.6	R 4.3	1.0	0.0	R n 1	Ная	0.0	H 70
017	688.9	48.4	0.7	0.0	0.0	0.7	86.9	R 4 0	1.1	0.0	R 0.2	R 6.9	0.0	R 83
018	649.1	65.0	0.7 1.1	0.0	0.0	1.1	111.4	H 2.8	1.0	0.0	R 0.2 R 0.3	R 6.9 R 9.7	0.0 0.0	R 84
2019	566.1	69.8	1.2	0.0	0.0	1.2	96.0	R76	1.0	0.0	R 0.3 R 0.3	Rag	0.0	R 83 R 840 R 75 R 700 R 720
020	533.0	69.9	1.1	0.0	0.0	1.1	80.9	R 6.4	1.0	0.0	H 0.3	R 11.4 R 22.3	0.0	H 70
021 022	595.3 547.8	56.1 78.3	2.8 2.2	0.0 0.0	0.0 0.0	2.8 2.2	44.8 92.6	R 5.8 4.7	0.8 0.7	0.0 0.0	R 0.4 0.5	<sup>n</sup> 22.3 25.7	0.0 0.0	n 72
JEC	047.0	/0.3	2.2	0.0	0.0	2.2	92.0	4.7	0.7	0.0	0.5	20.7	0.0	/5/

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Montana

Col							Petroleum								
Thousand barels		Coal			HGL <sup>c</sup>				Other <sup>f</sup>	Total		electric	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
1970   763   88   4.827   1.326   649   9.262   1.268   5.338   22.670   0   8.745   0     1971   731   88   5.715   1.402   767   9.494   1.262   5.265   23.326   0   9.944   0     1973   838   84   6.208   1.703   767   10.138   1.466   6.031   28.303   0   9.444   0     1974   838   84   6.208   1.703   767   10.138   1.466   6.031   28.303   0   9.444   0     1975   1.149   80   7.586   1.370   818   10.650   2.262   5.18   28.316   0   9.724   0     1976   2.507   74   8.411   1.421   753   11.605   2.262   5.127   29.463   0   12.402   0     1977   3.365   71   8.258   1.388   7776   11.100   2.506   5.265   5.276   29.278   0   8.460   0     1977   3.365   71   8.258   1.388   7776   11.100   2.506   5.268   30.058   0   11.704   0     1978   3.365   71   8.258   1.388   7776   11.100   2.506   5.268   30.058   0   11.704   0     1978   3.365   71   8.258   1.388   7776   11.100   2.506   5.268   30.058   0   11.704   0     1980   3.520   61   7.509   1.806   927   11.402   2.507   5.988   30.058   0   11.704   0     1981   3.522   52   6.469   1.027   800   10.797   2.494   4.099   2.5666   0   13.23   0     1982   2.266   52   5.268   1.446   625   10.429   1.608   3.590   2.3525   0   10.920   0     1983   2.2533   47   0.444   1.375   672   0.104   8.33   4.301   2.756   0   0     1984   5.773   47   0.444   1.375   672   0.104   0.258   2.378   0   0   0.007   0     1985   7.790   39   6.223   1.716   718   10.258   2.35   5.188   2.415   0   0     1986   7.790   39   6.223   1.716   718   10.258   2.35   5.188   2.415   0   0     1987   7.730   39   6.223   1.716   718   10.258   2.35   5.188   2.415   0   0     1988   10.634   42   6.678   1.156   687   10.158   2.35   1.168   2.35   2.484   2.415   0   0     1989   10.458   48   7.338   1.506   7.598   1.1048   1.1048   2.215   5.488   2.415   0   0   0.1075   0     1989   10.458   48   7.338   1.506   7.738   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148	Year						Thousand barrels	i			М	illion kilowatthou	rs	Thousan	d barrels
1970   763   88   4.827   1.326   649   9.262   1.268   5.338   22.670   0   8.745   0     1971   731   88   5.715   1.402   767   9.494   1.262   5.265   23.326   0   9.944   0     1973   838   84   6.208   1.703   767   10.138   1.466   6.031   28.303   0   9.444   0     1974   838   84   6.208   1.703   767   10.138   1.466   6.031   28.303   0   9.444   0     1975   1.149   80   7.586   1.370   818   10.650   2.262   5.18   28.316   0   9.724   0     1976   2.507   74   8.411   1.421   753   11.605   2.262   5.127   29.463   0   12.402   0     1977   3.365   71   8.258   1.388   7776   11.100   2.506   5.265   5.276   29.278   0   8.460   0     1977   3.365   71   8.258   1.388   7776   11.100   2.506   5.268   30.058   0   11.704   0     1978   3.365   71   8.258   1.388   7776   11.100   2.506   5.268   30.058   0   11.704   0     1978   3.365   71   8.258   1.388   7776   11.100   2.506   5.268   30.058   0   11.704   0     1980   3.520   61   7.509   1.806   927   11.402   2.507   5.988   30.058   0   11.704   0     1981   3.522   52   6.469   1.027   800   10.797   2.494   4.099   2.5666   0   13.23   0     1982   2.266   52   5.268   1.446   625   10.429   1.608   3.590   2.3525   0   10.920   0     1983   2.2533   47   0.444   1.375   672   0.104   8.33   4.301   2.756   0   0     1984   5.773   47   0.444   1.375   672   0.104   0.258   2.378   0   0   0.007   0     1985   7.790   39   6.223   1.716   718   10.258   2.35   5.188   2.415   0   0     1986   7.790   39   6.223   1.716   718   10.258   2.35   5.188   2.415   0   0     1987   7.730   39   6.223   1.716   718   10.258   2.35   5.188   2.415   0   0     1988   10.634   42   6.678   1.156   687   10.158   2.35   1.168   2.35   2.484   2.415   0   0     1989   10.458   48   7.338   1.506   7.598   1.1048   1.1048   2.215   5.488   2.415   0   0   0.1075   0     1989   10.458   48   7.338   1.506   7.738   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148   1.148	1960	253	56	4.898	737	265	6.922	2.063	4.234	19.118	0	5.801	0	NA	NA
1972   830	1965	370	71	4,962	926	384	7,709	1,241	4,587	19,809	•	8,389	0	NA NA	NA NA
1972   830	1970	731	88	4,827 5,715	1,326	767	9,494	1,268	5,338	22,670		8,745 9,594		NA NA	NA NA
1974 923 80 7,840 1,466 780 10,550 2,262 5,418 28,316 0 9,724 0 1,177 1975 1,149 80 7,596 1,370 818 10,530 2,262 5,182 28,440 0 12,462 0 1,187 2,507 74 8,418 11,481 14,818 753 11,808 2,552 5,165 28,840 0 12,462 0 1,187 2,507 74 8,418 11,481 14,818 11,818	1972	830	84	6,206	1,705	762	10,137	1,469	6,031	26.308	•	9.444		NA NA	NA NA
1976 1,149 80 7,586 1,370 818 10,630 2,178 5,105 27,687 0 10,166 0 11,1976 2,5907 74 8,411 1,421 753 11,100 2,506 5,266 29,270 0 8,460 0 12,402 0 0 19,777 3,385 71 8,258 1,588 772 11,100 2,506 5,266 29,270 0 0 8,460 0 0 11,700 0 0 19,777 3,385 71 8,258 1,588 772 11,100 2,506 5,266 29,270 0 0 8,460 0 0 11,700 0 0 19,700 1 1,000 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 0 1 1,000 0 1 1,000 0 1 1,000 0 1 1,000 0 1 1,000 0 0 1 1,000 0 1	1974	923	90 80	7.840	1.466	757 780	10.550		5,151	28.316	•	9.724	0	NA NA	NA NA
1977 3,385 71 8,258 1,368 772 11,100 2,506 5,266 29,270 0 8,460 0 1978 1978 3,380 70 9,037 1,094 907 11,100 2,506 5,266 29,270 0 11,700 0 1979 3,868 70 9,037 1,094 907 11,106 4,004 4,886 22,682 0 13,344 0 10,100 1979 3,868 70 9,037 1,094 907 11,106 4,004 4,886 22,682 0 0 9,946 0 19,946 1981 1981 3,682 1,682 1,094 1982 2,286 52 5,828 1,446 625 10,429 1,688 3,580 25,525 0 110,220 0 1,094 1982 2,286 52 5,828 1,446 625 10,429 1,688 3,580 25,525 0 110,520 0 1,094 1984 5,283 47 8,161 1,032 642 10,451 798 4,181 25,266 0 11,112 (s) 1985 5,713 47 10,444 1,576 678 10,188 133 4,301 27,320 0 1,0175 (s) 1986 7,780 41 6,621 1,505 867 10,158 42 4,483 42,041 0 10,657 (s) 1986 7,780 41 6,621 1,505 867 10,158 47 4,843 42,041 0 10,657 (s) 1988 10,688 42 6,648 44 6 6,768 11,168 10,289 11,044 10,168 44 6,645 11,048 10,048 1	1975	1,149	80	7,586	1,370	818	10,630	2,178	5,105	27,687	•	10,166	•	NA	NA
1979		2,507 3,385	/4 71	8 258	1 368	753 772	11,605 11 100	2 506		29,843 29,270	•	8 460	0	NA NA	NA NA
1981   3.622   52   6.469   1.027   800   10,797   2.494   4.099   25,886   0   11,323   0   1983   2.533   46   8.863   1.497   652   10,429   1.008   3.890   23,525   0   10,320   0   1983   2.533   46   8.863   1.497   652   10,525   1.306   3.804   26,648   0   11,561   0   11,561   0   1984   5.283   47   8.161   1.032   6.42   10,451   798   4.181   25,266   0   1.1111   (s)   1985   5.778   47   1.0444   1.576   678   10,188   133   4.301   27,320   1   0   10,175   (s)   1985   5.778   47   10,444   1.576   678   10,188   133   4.301   27,320   1   0   10,175   (s)   1987   7,730   49   6.621   1.75   18   10,258   23   2.518   24,156   0   10,075   (s)   1988   10,634   42   6.078   1.515   809   10,441   221   5.448   24,513   0   8.237   0   1991   10,786   45   7.220   1.053   615   10,360   145   4.890   24,284   0   11,717   0   1992   11,300   46   6.836   1.018   864   10,727   88   5.623   25,156   0   8.271   (s)   1993   9,499   53   7,315   2,200   901   10,999   680   5.212   27,308   0   9.614   0   1995   11,357   52   7,381   1.055   855   11,097   369   5,930   26,687   0   8.150   0   9.997   1999   9,630   0,007   1.518   999   11,753   181   7,421   3.0041   0   13,795   0   10,746   0   1995   10,272   58   8.049   918   1.052   11,328   236   6.428   28.011   0   10,746   0   1995   10,272   58   8.049   918   1.052   11,328   236   6.428   28.011   0   10,746   0   1996   8.210   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   1.0746   0   0   0   0   0   0   0   0   0	1978	3.390	73	8.232	1,662	699	12,809	2,502	5,095	30,999		11.708		NA	NA
1981   3.622   52   6.469   1.027   800   10.797   2.494   4.099   25.886   0   11,323   0   1982   2.826   52   5.828   1.446   625   10.429   1.608   3.890   23.825   0   10.920   0   1983   2.533   46   8.863   1.497   652   10.525   1.306   3.804   26.648   0   11,561   0   1.898   5.713   4.7   8.161   1.032   6.42   10.451   798   4.181   25.266   0   1.1111   (s)   1.008	1979	3,686	70 61	9,037 7,509	1,094	907	11,162 10,416	5,773 4,025	4,896 4,585	32,869		10,344	0	NA NA	NA NA
1983	1981	3.622	52	6.469	1.027	800	10.797	2,494	4,099	25,686	Ö	11.323		1	NA
1985   5,713   47	1982	2,826	52 46	5,828		625	10,429			23,525	•	10,920		24 26	NA NA
1985   5,713   47	1984	5,283	47	8,161	1,032	642	10,323	798	4,181	25,266		11,112	(s)	23	NA
1988   10,634   42   6,078   1,515   809   10,441   221   5,448   24,513   0   8,237   0   1990   10,458   46   7,336   1,608   750   10,310   180   5,709   25,893   0   9,571   0   1990   9,850   43   7,280   1,740   708   10,328   218   5,518   25,792   0   10,717   0   1992   11,0786   45   7,220   1,053   615   10,360   145   4,890   24,284   0   11,970   0   1992   11,300   46   6,836   1,018   864   10,727   88   5,623   25,156   0   8,271   (s)   1993   9,499   53   7,315   2,200   901   10,999   680   5,212   27,309   0   9,614   0   0   1995   11,357   52   7,381   1,055   855   11,097   369   5,930   26,687   0   8,150   0   1995   10,272   58   8,049   918   1,052   11,328   236   6,428   28,011   0   10,746   0   1997   9,653   60   9,037   277   793   11,480   162   6,780   28,528   0   13,406   0   1999   11,074   62   7,921   527   836   11,768   20   9,551   30,624   0   13,822   0   10,111   10,00   65   8,476   1,400   756   11,640   2   6,090   28,365   0   6,613   0   2001   11,100   65   8,476   1,400   756   11,640   2   6,090   28,365   0   6,613   0   2004   11,522   67   9,988   2,384   1,008   11,991   42   6,760   32,173   0   8,856   0   2005   11,531   74   12,322   2,409   1,045   1,196   1,196   12,577   35,443   0   10,130   436   2,000   11,501   74   13,800   2,984   70   8,145   1,502   768   11,871   39   6,948   29,274   0   9,557   0   2006   11,531   74   12,322   2,409   1,045   1,196   12,579   0   8,155   3,133   0   9,364   496   2006   12,514   74   13,880   2,999   10,45   11,960   12,577   35,443   0   10,130   436   2000   12,514   74   13,880   2,999   10,45   11,960   12,577   35,443   0   10,130   436   2000   12,514   74   13,880   2,999   10,221   76   13,845   2,499   10,45   11,960   12,577   35,443   0   10,130   436   2000   12,514   74   13,880   2,999   10,221   76   12,647   74   13,880   2,999   10,221   76   12,647   74   13,880   2,999   10,221   76   12,647   74   13,840   2,999   10,221   76   13,845   2,499   10,45   11,960   12,577   35,443   0	1985	5,713	47	10,444	1,576	678	10,188	133	4,301	27,320	•	10.175	(s)	15 8	NA NA
1988   10,634   42   6,078   1,515   809   10,441   221   5,448   24,513   0   8,237   0   1990   10,458   46   7,336   1,608   750   10,310   180   5,709   25,893   0   9,571   0   1990   9,850   43   7,280   1,740   708   10,328   218   5,518   25,792   0   10,717   0   1992   11,0786   45   7,220   1,053   615   10,360   145   4,890   24,284   0   11,970   0   1992   11,300   46   6,836   1,018   864   10,727   88   5,623   25,156   0   8,271   (s)   1993   9,499   53   7,315   2,200   901   10,999   680   5,212   27,309   0   9,614   0   0   1995   11,357   52   7,381   1,055   855   11,097   369   5,930   26,687   0   8,150   0   1995   10,272   58   8,049   918   1,052   11,328   236   6,428   28,011   0   10,746   0   1997   9,653   60   9,037   277   793   11,480   162   6,780   28,528   0   13,406   0   1999   11,074   62   7,921   527   836   11,768   20   9,551   30,624   0   13,822   0   10,111   10,00   65   8,476   1,400   756   11,640   2   6,090   28,365   0   6,613   0   2001   11,100   65   8,476   1,400   756   11,640   2   6,090   28,365   0   6,613   0   2004   11,522   67   9,988   2,384   1,008   11,991   42   6,760   32,173   0   8,856   0   2005   11,531   74   12,322   2,409   1,045   1,196   1,196   12,577   35,443   0   10,130   436   2,000   11,501   74   13,800   2,984   70   8,145   1,502   768   11,871   39   6,948   29,274   0   9,557   0   2006   11,531   74   12,322   2,409   1,045   1,196   12,579   0   8,155   3,133   0   9,364   496   2006   12,514   74   13,880   2,999   10,45   11,960   12,577   35,443   0   10,130   436   2000   12,514   74   13,880   2,999   10,45   11,960   12,577   35,443   0   10,130   436   2000   12,514   74   13,880   2,999   10,221   76   13,845   2,499   10,45   11,960   12,577   35,443   0   10,130   436   2000   12,514   74   13,880   2,999   10,221   76   12,647   74   13,880   2,999   10,221   76   12,647   74   13,880   2,999   10,221   76   12,647   74   13,840   2,999   10,221   76   13,845   2,499   10,45   11,960   12,577   35,443   0	1987	7.730	41 39	6,621		718	10.258	23	4,843 5.218	24.156		10,857 8.925	(S) 0	8 6	NA NA
1990         9,850         43         7,280         1,740         708         10,328         218         5,518         25,792         0         10,717         0           1991         10,766         45         7,220         1,053         615         10,360         145         4,890         24,284         0         11,970         0           1992         11,300         46         6,836         1,018         864         10,727         88         5,623         25,156         0         8,271         (s)           1994         11,357         52         7,381         1,055         855         11,097         369         5,930         26,687         0         8,150         0         10,746         0         1995         10,272         58         8,049         918         1,052         11,328         236         6,428         28,011         0         10,746         0         1997         9,653         60         9,037         277         793         11,480         162         6,780         28,528         0         13,406         0         1997         9,653         60         9,037         277         793         11,480         162         6,780         28,528 </td <td>1988</td> <td>10,634</td> <td>42</td> <td>6,078</td> <td>1,515</td> <td>809</td> <td>10,441</td> <td>221</td> <td>5.448</td> <td>24,513</td> <td>•</td> <td>8,237</td> <td>0</td> <td>1</td> <td>NA</td>	1988	10,634	42	6,078	1,515	809	10,441	221	5.448	24,513	•	8,237	0	1	NA
1992       11,300       46       6,836       1,018       864       10,727       88       5,623       25,156       0       8,271       (s)         1994       11,357       52       7,381       1,055       855       11,097       369       5,930       26,687       0       8,150       0         1995       10,272       58       8,049       918       1,052       11,328       236       6,428       28,011       0       10,746       0         1996       8,210       61       8,070       1,618       999       11,753       181       7,421       30,041       0       10,746       0         1997       9,653       60       9,037       277       793       11,480       162       6,780       28,528       0       13,406       0         1998       11,046       60       7,863       271       798       11,596       106       7,680       28,528       0       13,406       0         1999       11,074       62       7,921       527       836       11,768       20       9,551       30,624       0       13,822       0         2000       10,554       68       8,069	1989 1990	10,458 9.850	46 43	7,336 7,280	1,608 1,740	750 708	10,310 10,328	180 218	5,709 5,518	25,893 25,792		9,571 10,717		(s) 3	NA NA
1994 11,357 52 7,381 1,055 855 11,097 369 5,930 26,687 0 8,150 0 1995 10,272 58 8,049 918 1,052 11,328 236 6,428 28,011 0 10,746 0 1996 8,210 61 8,070 1,618 999 11,753 181 7,421 30,041 0 13,795 0 1997 9,653 60 9,037 277 793 11,480 162 6,780 28,528 0 13,406 0 1998 11,046 60 7,863 271 798 11,596 106 7,698 28,333 0 11,118 0 1999 11,074 62 7,921 527 836 11,768 20 9,551 30,624 0 13,822 0 2000 10,554 68 8,069 1,324 747 11,559 1 7,953 29,652 0 9,623 0 2001 11,000 65 8,476 1,400 756 11,640 2 6,090 28,365 0 6,613 0 2002 9,841 70 8,145 1,502 768 11,871 39 6,948 29,274 0 9,567 0 2003 11,127 68 7,953 2,151 832 11,846 6 6,046 28,835 0 8,702 0 2004 11,522 67 9,988 2,384 1,008 11,991 42 6,760 32,173 0 8,856 0 2005 11,822 68 11,465 2,455 1,112 11,770 106 6,6601 33,511 0 9,587 0 2006 11,531 74 12,232 2,409 1,045 11,960 125 7,672 35,443 0 10,130 436 2007 12,041 74 13,880 2,993 1,026 12,079 0 8,155 38,133 0 9,364 496 2008 12,113 76 12,869 2,989 832 1,166 1 1,906 1 6,799 32,035 0 9,415 930 2011 9,848 78 10,553 2,530 1,104 11,735 4 7,378 33,304 0 12,556 12,655 2012 9,300 73 10,028 2,071 1,123 11,887 (s) 7,350 32,499 0 11,283 1,265 2013 9,896 90 10,554 2,036 90 10,554 4 7,578	1991	10,786	45	7,220	1,053	615	10,360	145	4,890	24,284	Ō	11,970	Ō	13	NA
1994 11,357 52 7,381 1,055 855 11,097 369 5,930 26,687 0 8,150 0 1995 10,272 58 8,049 918 1,052 11,328 236 6,428 28,011 0 10,746 0 1996 8,210 61 8,070 1,618 999 11,753 181 7,421 30,041 0 13,795 0 1997 9,653 60 9,037 277 793 11,480 162 6,780 28,528 0 13,406 0 1998 11,046 60 7,863 271 798 11,596 106 7,698 28,333 0 11,118 0 1999 11,074 62 7,921 527 836 11,768 20 9,551 30,624 0 13,822 0 2000 10,554 68 8,069 1,324 747 11,559 1 7,953 29,652 0 9,623 0 2001 11,000 65 8,476 1,400 756 11,640 2 6,090 28,365 0 6,613 0 2002 9,841 70 8,145 1,502 768 11,871 39 6,948 29,274 0 9,567 0 2003 11,127 68 7,953 2,151 832 11,846 6 6,046 28,835 0 8,702 0 2004 11,522 67 9,988 2,384 1,008 11,991 42 6,760 32,173 0 8,856 0 2005 11,822 68 11,465 2,455 1,112 11,770 106 6,6601 33,511 0 9,587 0 2006 11,531 74 12,232 2,409 1,045 11,960 125 7,672 35,443 0 10,130 436 2007 12,041 74 13,880 2,993 1,026 12,079 0 8,155 38,133 0 9,364 496 2008 12,113 76 12,869 2,989 832 1,166 1 1,906 1 6,799 32,035 0 9,415 930 2011 9,848 78 10,553 2,530 1,104 11,735 4 7,378 33,304 0 12,556 12,655 2012 9,300 73 10,028 2,071 1,123 11,887 (s) 7,350 32,499 0 11,283 1,265 2013 9,896 90 10,554 2,036 90 10,554 4 7,578	1992	11,300	46	6,836 7,215	1,018	864	10,727	88 690	5,623	25,156	•	8,271	(s)	13 15	NA NA
1997         9,653         60         9,037         277         793         11,480         162         6,780         28,528         0         13,406         0           1998         11,046         60         7,863         271         798         11,596         106         7,698         28,333         0         11,118         0           1999         11,074         62         7,921         527         836         11,758         20         9,551         30,624         0         13,822         0           2000         10,554         68         8,069         1,324         747         11,559         1         7,953         29,652         0         9,623         0           2001         11,000         65         8,476         1,400         756         11,640         2         6,090         28,365         0         6,613         0           2002         9,841         70         8,145         1,502         768         11,871         39         6,948         29,274         0         9,567         0           2003         11,127         68         7,953         2,151         832         11,846         6         6,046         28,83	1994	11.357	52	7.381	1.055	855	11.097	369	5,930	26.687		8 150		0	NA
1997         9,653         60         9,037         277         793         11,480         162         6,780         28,528         0         13,406         0           1998         11,046         60         7,863         271         798         11,596         106         7,698         28,333         0         11,118         0           1999         11,074         62         7,921         527         836         11,589         1         7,953         29,652         0         9,623         0           2000         10,554         68         8,069         1,324         747         11,559         1         7,953         29,652         0         9,623         0           2001         11,000         65         8,476         1,400         756         11,640         2         6,090         28,365         0         6,613         0           2002         9,841         70         8,145         1,502         768         11,871         39         6,948         29,274         0         9,567         0           2003         11,127         68         7,953         2,151         832         11,846         6         6,046         28,835<	1995	10,272	58	8,049		1,052	11,328	236		28,011		10,746		17	NA
1999         11,074         62         7,921         527         836         11,768         20         9,551         30,624         0         13,822         0           2000         10,554         68         8,069         1,324         747         11,559         1         7,953         29,652         0         9,623         0           2001         11,000         65         8,476         1,400         756         11,640         2         6,090         28,365         0         9,613         0           2002         9,841         70         8,145         1,502         768         11,871         39         6,948         29,274         0         9,567         0           2003         11,127         68         7,953         2,151         832         11,846         6         6,046         28,835         0         8,702         0           2004         11,522         67         9,988         2,384         1,008         11,991         42         6,760         32,173         0         8,856         0           2005         11,822         68         11,465         2,455         1,112         11,770         106         6,601 <t< td=""><td>1996 1997</td><td>8,210 9,653</td><td>61 60</td><td>8,070 9,037</td><td>1,618 277</td><td>999 793</td><td>11,753 11 480</td><td>181 162</td><td>7,421 6,780</td><td>30,041 28,528</td><td></td><td>13,795 13,406</td><td></td><td>0</td><td>NA NA</td></t<>	1996 1997	8,210 9,653	61 60	8,070 9,037	1,618 277	999 793	11,753 11 480	181 162	7,421 6,780	30,041 28,528		13,795 13,406		0	NA NA
2001 11,000 65 8,476 1,400 756 11,640 2 6,090 28,365 0 6,613 0 2002 9,841 70 8,145 1,502 768 11,871 39 6,948 29,274 0 9,567 0 2003 11,127 68 7,953 2,151 832 11,846 6 6,046 28,835 0 8,702 0 2004 11,522 67 9,988 2,384 1,008 11,991 42 6,760 32,173 0 8,856 0 2005 11,822 68 11,465 2,455 1,112 11,770 106 6,601 33,511 0 9,587 0 2006 11,531 74 12,232 2,409 1,045 11,960 125 7,672 35,443 0 10,130 436 2007 12,041 74 13,880 2,993 1,026 12,079 0 8,155 38,133 0 9,364 496 2008 12,113 76 12,869 2,989 832 11,626 0 7,501 35,817 0 10,000 593 2009 10,221 76 11,531 2,586 792 11,844 59 7,165 33,977 0 9,506 821 2010 12,087 72 9,884 2,349 1,126 11,906 1 6,799 32,035 0 9,415 930 2011 9,848 78 10,553 2,530 1,104 11,735 4 7,378 33,304 0 12,596 1,265 2012 9,300 73 10,028 2,071 1,123 11,887 (s) 7,350 32,459 0 11,283 1,262 2013 9,866 80 10,568 20 10,568	1998	11,046	60	7.863	271	798	11.596	106	7,698	28.333	Ö	11,118	Ō	10	NA
2001 11,000 65 8,476 1,400 756 11,640 2 6,090 28,365 0 6,613 0 2002 9,841 70 8,145 1,502 768 11,871 39 6,948 29,274 0 9,567 0 2003 11,127 68 7,953 2,151 832 11,846 6 6,046 28,835 0 8,702 0 2004 11,522 67 9,988 2,384 1,008 11,991 42 6,760 32,173 0 8,856 0 2005 11,822 68 11,465 2,455 1,112 11,770 106 6,601 33,511 0 9,587 0 2006 11,531 74 12,232 2,409 1,045 11,960 125 7,672 35,443 0 10,130 436 2007 12,041 74 13,880 2,993 1,026 12,079 0 8,155 38,133 0 9,364 496 2008 12,113 76 12,869 2,989 832 11,626 0 7,501 35,817 0 10,000 593 2009 10,221 76 11,531 2,586 792 11,844 59 7,165 33,977 0 9,506 821 2010 12,087 72 9,884 2,349 1,126 11,906 1 6,799 32,035 0 9,415 930 2011 9,848 78 10,553 2,530 1,104 11,735 4 7,378 33,304 0 12,596 1,265 2012 9,300 73 10,028 2,071 1,123 11,887 (s) 7,350 32,459 0 11,283 1,262 2013 9,866 80 10,568 20 10,568	1999	11,074	62 68	7,921	527	836 747	11,768		9,551	30,624		13,822	0	11 13	NA NA
2003         11,127         68         7,953         2,151         832         11,846         6         6,046         28,835         0         8,702         0           2004         11,522         67         9,988         2,384         1,008         11,991         42         6,760         32,173         0         8,856         0           2005         11,822         68         11,465         2,455         1,112         11,770         106         6,601         33,511         0         9,587         0           2006         11,531         74         12,232         2,409         1,045         11,960         125         7,672         35,443         0         10,130         436           2007         12,041         74         13,880         2,993         1,026         12,079         0         8,155         38,133         0         9,364         496           2008         12,113         76         12,869         2,989         832         11,626         0         7,501         35,817         0         10,000         593           2009         10,221         76         11,531         2,586         792         11,844         59         7,	2001	11,000	65	8,476	1 400	756	11,640	2	6,090	28,365	0	6,613	0	35 35	(s)
2005     11,822     68     11,465     2,455     1,112     11,770     106     6,601     33,511     0     9,587     0       2006     11,531     74     12,232     2,409     1,045     11,960     125     7,672     35,443     0     10,130     436       2007     12,041     74     13,880     2,993     1,026     12,079     0     8,155     38,133     0     9,364     496       2008     12,113     76     12,869     2,989     832     11,626     0     7,501     35,817     0     10,000     593       2009     10,221     76     11,531     2,586     792     11,844     59     7,165     33,977     0     9,506     821       2010     12,087     72     9,854     2,349     1,126     11,906     1     6,799     32,035     0     9,415     930       2011     9,848     78     10,553     2,530     1,104     11,735     4     7,378     33,304     0     12,596     1,265       2012     9,300     73     10,028     2,071     1,123     11,887     (s)     7,350     32,459     0     11,283     1,262       2013 <td>2002</td> <td>9,841</td> <td>70</td> <td>8,145</td> <td>1,502</td> <td>768</td> <td>11,871</td> <td>39</td> <td>6,948</td> <td>29,274</td> <td></td> <td>9,567</td> <td></td> <td>35</td> <td>(s)</td>	2002	9,841	70	8,145	1,502	768	11,871	39	6,948	29,274		9,567		35	(s)
2005     11,822     68     11,465     2,455     1,112     11,770     106     6,601     33,511     0     9,587     0       2006     11,531     74     12,232     2,409     1,045     11,960     125     7,672     35,443     0     10,130     436       2007     12,041     74     13,880     2,993     1,026     12,079     0     8,155     38,133     0     9,364     496       2008     12,113     76     12,869     2,989     832     11,626     0     7,501     35,817     0     10,000     593       2009     10,221     76     11,531     2,586     792     11,844     59     7,165     33,977     0     9,506     821       2010     12,087     72     9,854     2,349     1,126     11,906     1     6,799     32,035     0     9,415     930       2011     9,848     78     10,553     2,530     1,104     11,735     4     7,378     33,304     0     12,596     1,265       2012     9,300     73     10,028     2,071     1,123     11,887     (s)     7,350     32,459     0     11,283     1,262       2013 <td>2003</td> <td>11,127</td> <td>68 67</td> <td>7,953 9.988</td> <td>2,151</td> <td>1.008</td> <td>11,846</td> <td>42</td> <td>6,046</td> <td>28,835 32,173</td> <td>0</td> <td>8,702 8.856</td> <td></td> <td>30 38</td> <td>(s) (s)</td>	2003	11,127	68 67	7,953 9.988	2,151	1.008	11,846	42	6,046	28,835 32,173	0	8,702 8.856		30 38	(s) (s)
2007     12,041     74     13,880     2,993     1,026     12,079     0     8,155     38,133     0     9,364     496       2008     12,113     76     12,889     2,989     832     11,626     0     7,501     35,817     0     10,000     593       2009     10,221     76     11,531     2,586     792     11,844     59     7,165     33,977     0     9,506     821       2010     12,087     72     9,854     2,349     1,126     11,906     1     6,799     32,035     0     9,415     930       2011     9,848     78     10,553     2,530     1,104     11,735     4     7,378     33,304     0     12,596     1,265       2012     9,300     73     10,028     2,071     1,123     11,887     (s)     7,350     32,459     0     11,283     1,262       2013     9,96     90     10,568     2,003     9,867     12,444     1     6,897     32,459     0     11,283     1,262	2005	11.822	68	11.465	2.455	1.112	11.770	106	6.601	33.511		9.587	0	261	1
2008     12,113     76     12,869     2,989     832     11,626     0     7,501     35,817     0     10,000     593       2009     10,221     76     11,531     2,586     792     11,844     59     7,165     33,977     0     9,506     821       2010     12,087     72     9,854     2,349     1,126     11,906     1     6,799     32,035     0     9,415     930       2011     9,848     78     10,553     2,530     1,104     11,735     4     7,378     33,304     0     12,596     1,265       2012     9,300     73     10,028     2,071     1,123     11,887     (s)     7,350     32,459     0     11,283     1,262       2013     9,866     80     10,568     2,003     857     12,144     1     6,887     32,540     0     1,263     1,755	2006	11,531		12,232 13,880	2,409	1,045 1,026	11,960		7,672 8 155	35,443 38 133	•	10,130	436 496	311 525	3
2010 12,087 72 9,854 2,349 1,126 11,906 1 6,799 32,035 0 9,415 930 2011 9,848 78 10,553 2,530 1,104 11,735 4 7,378 33,304 0 12,596 1,265 2012 9,300 73 10,028 2,071 1,123 11,887 (s) 7,350 32,459 0 11,283 1,262	2008	12,113	76	12,869	2,989	832	11,626	Ö	7,501	35,817	ŏ	10,000	593	660	3
2012 9,300 73 10,028 2,071 1,123 11,887 (s) 7,350 32,459 0 11,283 1,262 9,306 80 10,648 2,003 857 12,144 1 6,087 32,640 0 6,38 1,755	2009	10,221	76 70	11,531	2,586	792	11,844	59	7,165	33.977	0	9,506	821	762 699	4
2012 9,300 73 10,028 2,071 1,123 11,887 (s) 7,350 32,459 0 11,283 1,262 9,303 9,365 80 10,648 2,003 9,57 12,144 1 6,087 32,640 0 0,638 1,755		9.848	72 78	10.553	2,349		11,906	4	7.378	32,035	0	12.596	1,265	888	10
2013 9,826 80 10,548 2,003 857 12,144 1 6,987 32,540 0 9,638 1,755 2014 10,462 78 9,819 2,297 948 12,279 3 6,594 31,941 0 11,483 1,974 2015 10,558 75 8,460 2,338 854 12,771 0 7,144 31,568 0 9,888 1,965 2016 9,591 75 8,703 2,098 1,090 12,976 0 8,990 831,858 0 10,083 2,140 2017 9,198 80 9,013 2,338 1,302 12,957 0 87,273 83,283 0 10,046 2,155	2012	9,300	73	10,028	2,071	1,123	11,887	(s)	7,350	32,459	•	11,283	1,262	978	9
2015 10,558 75 8,460 2,388 854 12,771 0 7,144 31,568 0 9,888 1,965 2016 9,591 75 8,703 2,098 1,090 12,976 0 6,990 31,858 0 10,083 2,140 2017 9,198 80 9,013 2,388 1,300 12,957 0 87,273 8,3883 0 10,046 2,155	2013		80 78	10,548 9.819	2,003 2,297	857 948	12,144 12,279	1	6,987 6 594	32,540 31 941		9,638 11 483	1,755 1 974	1,035	10 9
2016 9.591 75 8.703 2.098 1.090 12.976 0 16.990 13.858 0 10.083 2.140 10.083 1.090 12.957 0 17.2957 10.085	2015	10,558	75 75	8.460	2,338	854	12,771	ő	7 144	31,568	Ö	9,888	1,965	1,022 1,270	8
		9,591	75 90	8,703	2,098	1,090	12,976	0	н 6,990 В 7 272	H 31,858 R 32,892		10,083	2,140	1.343	12 5
2017 9,190 00 9,015 2,536 1,502 12,937 0 9,275 32,663 0 10,946 2,153 2018 8,972 87 9,230 2,507 1,335 12,778 0 9,6,884 9,32,734 0 11,405 2,153	2018	8,972	80 87	9,230	2,338 2,507	1,335	12,778	0	R 7,273 R 6,884	R 32,734		11,405	2,155 2,153	1,345 1,319	6
2019 9,474 88 9,485 3,074 1,181 12,802 0 R7,024 R33,565 0 10,005 2,373 2020 5,826 82 10,037 2,824 1,313 12,021 0 R7,110 R33,305 0 10,748 3,059	2019	9 474	88	9.485	3.074	1 181	12 802	0	H 7 024	n 33 565		10.005	2.373	1,345 1,275	7
2020 5,826 82 10,037 2,824 1,313 12,021 0 R7,110 R33,305 0 10,748 3,059 2021 7,141 82 R9,193 2,768 1,331 13,135 0 R7,022 R33,449 0 9,258 3,473	2020	5,826 7.141	82 82	10,037 R 9,193	2,824 2.768			0	117,110 R 7.022	R 33,305		9.258		1,2/5 1.324	6 5
2021 7,141 82 <sup>R</sup> 9,193 2,768 1,331 13,135 0 <sup>R</sup> 7,022 <sup>R</sup> 33,449 0 9,258 3,473 2022 7,647 89 9,083 3,509 1,192 13,029 0 6,822 33,635 0 9,886 4,022	2022		89		3,509	1,192		ő		33,635		9,886		1,324 1,224	2

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of</sup> data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Montana (trillion Btu)

					Fossil	fuels						Fossil fuels	
-						Petroleum						(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL b	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	4.0	57.6	28.5 28.9	2.8	1.4	36.4	13.0	24.9	107.0	168.6	57.6	28.5	36.4
1965	4.0 5.5	70.8	28.9	3.5	2.1	36.4 40.5	13.0 7.8	27.8	110.7	187.0	70.8	28.5 28.9	36.4 40.5 48.7 49.9
1970 1971	12.0 11.5	90.6 91.1	28.1 33.3	5.0 5.3	3.6 4.3	48.7 49.9	8.0 7.9	32.8 32.5	126.2 133.2	228.8 235.7	90.6 91.1	28.1 33.3	48.7
1972	13.2	87.0	36 1	6.5	4.3	53.2	92	37.0	146.3	246.5	87.0	36 1	53.2
1973	15.2 14.7	93.1 81.7	40.7 45.7	6.5 5.7 5.6	4.2	53.2 57.2	11.1 14.2	37.6 33.2	146.3 156.5 158.4	246.5 264.9 254.8	93.1 81.7	40.7 45.7	53.2 57.2
1974	14.7	81.7	45.7	5.6	4.4	55.4	14.2	33.2	158.4	254.8	81.7	45.7	55.4
1975 1976	18.6 42.2 57.8	81.2 75.4	44.2 49.0	5.2 5.4 5.2	4.6 4.2 4.3	55.8 61.0	13.7 15.9	31.2 31.5	154.7 167.0	254.5 284.5	81.2 75.4	44.2 49.0	55.8 61.0
1977	57.8	71.6	48.1	5.2	4.3	58.3	15.8	32.3	163.9	293.3	71.6	48 1	58 3
1978	57.6 63.4	72.7	48.0	6.3	3.9 5.1	58.3 67.3 58.6	15.7 36.3	31.1	172.3 186.7	302.6	71.6 72.7 69.1	48.0	67.3 58.6 54.7 56.7
1979 1980	63.4 60.2	69.1 61.5	52.6	4.1	5.1	58.6	36.3 25.3	30.0 28.1	186.7	319.3	69.1	52.6 42.7	58.6 54.7
1981	62.5	53.0	43.7 37.7	6.7 3.8	5.2 4.5	54.7 56.7	15.7	25.5	163.7 143.9	285.4 259.5	61.5 53.0	43.7 37.7	56.7
1982 1983	48.6 42.8	52.8	33.9	5.3 5.6	3.5 3.7	54.8	10.1 8.2	22.4 23.7	130.1	231.5 237.5	52.8 46.6	33.9 51.6	54.8 55.3
1983	42.8	46.6	51.6	5.6	3.7	55.3	8.2	23.7	148.1	237.5	46.6	51.6	55.3
1984 1985	90.3 99.1	47.1 47.3	47.5 60.8	3.8 5.7	3.6 3.8	54.9 53.5	5.U 0.8	26.0 27.0	140.8 151.7	278.2 298.1	47.1 47.3	47.5 60.8	54.9 53.5
1985 1986	99.1 133.2	41.1	38.6	3.8 5.7 5.5	4.8	53 A	5.0 0.8 0.3	27.0 30.7	151.7 133.3 133.2 135.5	298.1 307.7	41.1	38 6	53 A
1987	132.9	39.6	36.3	6.3 5.6	4.0	53.9	0.1	32.6	133.2	305.7 359.9	39.6 42.9	36.3	53.9
1988 1989	181.5 179.4	42.9 46.7	35.4 42.7	5.6 6.0	4.5 4.2 4.0	54.8 54.2	1.4 1.1	33.7 35.4	135.5 143.6	359.9 369.6	42.9 46.7	36.3 35.4 42.7	54.8 54.2
1990	168.8	44.4	42.4	6.4	4.0	54.3	1.4	35.4 34.0	143.6 142.4 135.2	355.7	46.7 44.4 46.7	42.4	54.3
1991	184.2	46.7	42.1	4.0	3.5	53.4 54.8 54.2 54.3 54.4	0.9	30.3	135.2	366.1	46.7	42.1	53.9 54.8 54.2 54.3 54.4
1992 1993	194.1 161.9	46.6 54.3	39.8 42.6	3.8 7.8	4.8 5.0	56.3 57.3	0.6 4.3	34.6 32.5	139.9 149.5	380.6 365.7	46.6 54.3	39.8 42.6	56.3 57.4
1993	193.7	53.3	43.0	3.9	4.8	57.3 57.9	2.3	36.9	149.5	395.7	53.3	43.0	57.4 57.9
1995	193.7 175.3	53.3 59.6	46.8	3.9 3.4	4.8 5.9	57.9 58.9 61.2	2.3 1.5	36.9 39.5	148.7 156.0 166.4	395.7 390.9	53.3 59.6 63.3	46.8	57.9 59.0
1996	138.8	63.3 61.7	47.0	5.8 1.0	5.7	61.2	1.1	45.6 41.6	166.4	368.4 384.8	63.3 61.7	47.0	61.2
1997 1998	162.6 186.1	61.4	52.6 45.8	1.0	4.5 4.5 4.7	59.8 60.3	1.0 0.7	47.3	160.5 159.5 173.2 165.4	384.8 407.0	61.4	52.6 45.8	59.8 60.3 61.2 60.1
1999	186.8	63.6	46.1	2.0	4.7	61.2 60.1	0.1	59.1	173.2	423.6	63.6 69.6	46.1 47.0	61.2
2000	176.8	69.6	47.0	5.0	4.2	60.1	(s) (s) 0.2	49.2	165.4	411.8	69.6	47.0	60.1
2001 2002	184.4 166.3	66.5 71.0	49.3 47.4	5.3 5.6	4.3 4.4	60.4 61.6	(s)	37.1 42.4	156.4 161.6	407.3 398.9	66.5 71.0	49.3 47.4	60.5 61.7
2003	189 0	70.0	46.3	8.2	4.7	61.5	(s)	36.5	157 1	416.2	70.0	46.3	61.6
2004 2005	195.6 199.5	68.6 71.1	58.1 66.7	9.1	4.7 5.7 6.3	61.5 62.2 60.2	(s) 0.3 0.7	40.8 39.7	176.1 182.9	440.3 453.5	68.6 71.1	58.1 66.7	62.3 61.1
2005	199.5 194.3	71.1	66.7 71.0	9.3 9.1	6.3	60.2	0.7 0.8	39.7 46.5	182.9	453.5	71.1	66.7	61.1 62.0
2006 2007	202.5	75.1 75.1 77.6	80.3	11.2	5.9 5.8 4.7	60.9 60.3 57.1	0.0	48.9	194.3 206.4 192.4	463.7 484.0	75.1 75.1 77.6	71.0 80.3 74.4	62.0 62.1
2008	202.5 203.3	77.6	74.4	11.3	4.7	57.1	0.0 0.0	44.9	192.4	473.3	77.6	74.4	59.4
2009 2010	172.8 203.3	76.6 72.9	66.1	9.9 9.0	4.5	57.6 57.9	0.4	43.7 41.8	182.3 171.7	431.7	76.6 72.9	66.6 56.9	60.3 60.3
2010	203.3 165.7	72.9 79.5	56.6 60.0	9.0 9.7	6.4 6.3	57.9 56.3	(S)	41.8 45.4	171.7 177.8	447.9 422.9	72.9 79.5	60.9	59.4
2012	157.3	79.5 75.2	57.0	9.7 8.0	6.4	56.3 56.8	(s)	45.1 42.8	177.8 173.2	405.8	79.5 75.2	57.8	60.2
2013	166.1	82.3	59.2	7.7	4 9	57.9	(s)	42.8	172.4	420.8	82.3 80.1	60.8	61.4
2014 2015	175.4 178.4	80.1 77.4	55.2 47.4	8.8 9.0	5.4 4.8	58.6 60.2	(s) (s) (s) (s) (s) 0.0	40.5 43.7	172.4 168.5 165.1	423.9 420.9	80.1 77.4	56.6 48.7	62.1 64.6
2016	161.9	77 6	48.1 50.0	8.1 9.0	6.2	60.9 60.8	0.0 0.0 0.0	43.6	_ 166.9	406.4 R 411.9	77.6 83.3	50.1 51.9	65.6 65.5
2017	156 1	83.3	50.0	9.0	7.4	60.8	0.0	45.3	R 172.5	R 411.9	83.3	51.9	65.5
2018 2019	152.3 159.2 98.9	90.8 92.6	51.4 53.0	9.6 11.8	7.6 6.7	60.0 60.0	0.0 0.0	R 43.0 43.7	□ 171.6	414.6 427.0	90.8 92.6	53.2 54.6	64.6 64.7 60.7
2020	98.9	87 5	55.8	10.8	7.4	56.3	0.0	43.7 44.2	174.6	361.0	87.5	57.8	60.7
2021	122.8	<sup>R</sup> 87.1	R 52.2	10.6	7.5	61.7	0.0	43.8	166.9 R 172.5 R 171.6 175.2 174.6 R 175.9	R 385.8	R 87.1	R 53.0	66.3
2022	131.3	94.0	51.6	13.5	6.8	61.5	0.0	42.6	176.0	401.3	94.0	52.4	65.8

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Montana (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 19.8	7.5	NA	NA	NA	NA	7.5	0.0	NA	NA	R 27.3	R 24.4 R 26.7 R 46.5 R 47.3 R 46.6 R 41.4 R 47.4	(s) (s)	R 220.3
1965 1970	0.0 0.0	R 28.6 R 29.8 R 32.7 R 32.2	7.8 6.6	NA NA	NA NA	NA NA	NA NA	7.8 6.6	0.0 0.0	NA NA	NA NA	R 36.4 R 36.5 R 39.5 R 38.5	H 26.7 B 46.5	(s) (s)	R 250.1 R 311.7
1971	0.0	R 32.7	6.7 6.3	NA	NA	NA	NA	6.7	0.0	NA	NA	R 39.5	R 47.3	(s)	R 322.5 R 331.7
1972	0.0	H 32.2	6.3	NA	NA NA	NA NA	NA NA	6.3	0.0	NA	NA	H 38.5	H 46.6	(s)	H 331.7
1973 1974	0.0 0.0	R 25.7 R 33.2	6.5 5.0	NA NA	NA NA	NA NA	NA NA	6.5 5.0	0.0 0.0	NA NA	NA NA	R 32.2 R 38.2	R 47.4	(s) (s)	R 338.5 R 340.4 R 334.5 R 354.4 R 353.0 R 372.8 R 386.6
1975	0.0	R 34.7 R 42.3	6.2 7.2 9.1	NA	NA	NA	NA	6.2	0.0	NA	NA	H 40 9	R 39.1 R 20.4 R 21.7 R 19.4 R 19.7	(s)	R 334.5
1976 1977	0.0 0.0	H 42.3 R 28.0	7.2	NA NA	NA NA	NA NA	NA NA	7.2 9.1	0.0 0.0	NA NA	NA NA	R 49.5 R 37.9	H 20.4 R 21.7	(s) (s)	H 354.4
1978	0.0	R 28.9 R 39.9	10.9	NA	NA	NA	NA	10.9	0.0	NA	NA	H 50.8	R 19.4	(s)	R 372.8
1979	0.0	H 35 3	12.3	NA	NA	NA	NA	12.3	0.0	NA	NA	R 47 6	R 19.7	(s)	R 386.6
1980 1981	0.0 0.0	R 34.0 R 38.6	11.1 12.6	NA (s)	NA NA	NA NA	NA (s)	11.1 12.6	0.0 0.0	NA NA	NA NA	R 45.1 R 51.3	R 19.6 R 16.9 R 24.8 R 21.5 R 14.9	(s) (s)	R 350.1 R 327.6 R 306.1 R 312.5 R 345.4 R 358.1
1982	0.0	н 37 3	12.4	(s) 0.1	NA	NA	(s) (s) 0.1	12.5	0.0	NA	NA	H 49 8	R 24.8	(s)	R 306.1
1983	0.0	H 20 4	12.4 13.9 14.3	0.1	NA	NA	0.1	14.0	0.0	NA	0.0	R 53.5 R 52.4	R 21.5	(s) (s) 0.2	R 312.5
1984 1985	0.0 0.0	R 37.9 R 34.7 R 37.0 R 30.5	14.3 14.4	0.1 0.1	NA NA	NA NA	0.1 0.1	14.5 14.6	0.0 0.0	0.0 0.0	(s) (s) (s) (s)	H 49 3	H 14.9	(s)	R 345.4
1986 1987	0.0	B 37.0	20.2 17.9	(s) (s)	NA	NA	0.1	20.4 18.0	0.0	0.0 0.0	(s)	R 57.4 R 48.5	R -24.9	(s) 0.1	R 340.2 R 320.0
1987	0.0	H 30.5	17.9	(s)	NA	NA	0.1	18.0	0.0	0.0	0.0	H 48.5	H -34.3	0.1	H 320.0
1988 1989	0.0 0.0	R 32 7	18.6 10.7	(s) (s)	NA NA	NA NA	0.1 0.1	18.7 10.8	0.0 0.1	0.0 (s)	0.0 0.0	R 46.8 R 43.6	R -71 4	(s) 0.1	R 341 9
1990	0.0	R 28.1 R 32.7 R 36.6 R 40.8	11.7	(s)	NA	NA	0.1	11.8	0.1	(s)	0.0 0.0	R 48.5 R 58.2	R -24.9 R -34.3 R -73.0 R -71.4 R -93.8 R -110.8	0.2	R 333.7 R 341.9 R 310.5 R 313.6
1991 1992	0.0 0.0	H 40.8	17.1 10.0	(s) (s) (s)	NA NA	NA NA	0.1 0.1	17.2 10.2	0.1 0.1	(s)	0.0	R 38.5	H -110.8 R-100.6 R-79.1 R-93.3 R-86.2 R-119.3 R-108.4 R-132.5 R-88.2 R-107.1 R-96.0	0.1 0.1	H 313.6
1993	0.0	R 28.2 R 32.8 R 27.8	9.7	0.1	NA	NA	0.0	9.8	0.1	(s) (s)	(s) 0.0 0.0	R 42.7 R 38.1	R -79.1		R 318.5 R 329.3 R 340.4 R 350.9 R 345.3 R 327.6 R 351.6
1994	0.0	R 27.8	9.7 10.1	0.0	NA	NA	0.1	9.8 10.2	0.1	(s)	0.0	R 38.1	R -93.4	(s) (s)	R 340.4
1995 1996	0.0 0.0	R 36.7 R 47.1	16.4 15.7	0.1 0.0	NA NA	NA NA	0.1	16.6 15.8	0.1 0.1	(s) (s)	0.0 0.0	R 53.3 R 63.0	n -93.3 R -86.2	(s) 0.1	n 350.9 R 345 3
1997	0.0	H 45 7	16.2	0.0	NA	NA	(s) (s) (s)	16.2	0.1	(s)	0.0 0.0 0.0	R 63.0 R 62.1	R -119.3	(s) 0.1	R 327.6
1998	0.0	H 37 Q	14.7	(s)	NA	NA	(s)	14.8	0.1	(s)	0.0	H 52 8	R -108.4	0.1	R 351.6
1999 2000	0.0 0.0	R 47.2 R 32.8 R 22.6	15.3 15.3	(s) (s) (s)	NA NA	NA NA	(s) (s)	15.4 15.3	0.3 0.3	(s) (s)	0.0 0.0	R 62.8 R 48.5	H -132.5	-0.1 (s)	R 372 0
2001 2002	0.0	R 22.6	11.9	0.1	(s)	NA	(s)	12.0	0.3	(s)	0.0 0.0	H 34 9	R107.1	(s) (s) 0.2	R 335.1
2002	0.0	R 32.6	11.0	0.1	(s)	NA	(s)	11.1	0.3	(s)	0.0	H 44 0	H -96.0	0.2	H 347.1
2003 2004	0.0 0.0	R 29.7 R 30.2	12.0 12.5	0.1 0.1	(s)	NA NA	(s) (s) 0.0	12.1 12.7	0.3 0.3	(s)	0.0 0.0	R 42.0 R 43.2	R-111 8	(s) -0.1	R 351.0 R 372.0 R 372.0 R 347.1 R 349.5 R 371.6
2005	0.0	н 32 7	17.8	0.9	(s)	NA	0.0	18.7	0.3	(s)	0.0	H 51.7	H-115.4	(s) -0.7	R 389.8
2006 2007	0.0 0.0	R 34.6 R 32.0	17.1 20.0	1.1 1.8	(s)	NA NA	0.0 0.0	18.2 21.8	0.3 0.3 0.3	(s)	0.0 R 1.5 R 1.7 R 2.0 R 2.8 R 3.2	R 54.6	H -111.8 B 105.7	-0.7 -0.2	R 389.4 R 492.9
2008	0.0	R 34.1	18.5	2.3	(s)	NA NA	(s)	20.8	0.3	(s)	R 2.0	R 55.8 R 57.2	R -110.4	-0.8	R 419.3
2009	0.0	R 34.1 R 32.4 R 32.1	12.7	2.6	(s)	NA	(s) (s) 0.0	15.4	0.3	(s)	R 2.8	H 50 9	R -92.2	-1.0	R 389.4
2010 2011	0.0 0.0	R 43.0	13.5 5.3	2.4 3.1	(s) 0.1	NA 0.0	0.0 0.0	16.0 8.4	0.3 0.4	(s) _ (s)	n 3.2 R ₄ 3	R 51.6 R 56.1	n -125.3 R -116.1	-1.3 -1.3	n 3/2.9 R 361 6
2012	0.0	R 38.5 R 32.9	4.6	3.4 3.6	0.1	0.0	0.0	8.0	0.4 0.3 0.3	B (a)	R 4.3	H E 1 2	R -100.0	-0.6 -1.2	R 361.6 R 356.4 R 367.7
2013	0.0	R 32.9 R 39.2	5.3	3.6	0.1	0.0	0.0	9.0	0.3	R (s) R (s)	R 6.0	R 48.2 R 55.6	R -100.1	-1.2	R 367.7
2014 2015	0.0 0.0	H 39.2	4.6 5.3 5.7 R 14.2	3.5 4.4	(s) (s)	0.0 0.0	0.0 0.0	9.3 _ 18.6	0.3 0.3	H (c)	R 4.3 R 4.3 R 6.0 R 6.7 R 6.7 R 7.3 R 7.4	R 59 4	H -111.8 R -105.7 R -110.4 R -92.2 R -125.3 R -116.1 R -100.0 R -100.1 R -113.3 R -112.9 R -101.3 R -97.2 R -91.4	-3.3 -0.6	R 362.9 R 366.9
2016	0.0	R 33.7 R 34.4 R 37.3	14.8 R 15.0	4.7 4.7	0.1	0.0	(s) (s)	R 19.6 R 19.7	0.3 0.3	R (s) R 0.1	R 7.3	R 61.7	R <sub>-</sub> 101.3	0.4	R 367.2 R 380.1
2017	0.0	R 37.3 R 38.9	H 15.0	4.7	(s)	0.0	(s)	H 19.7	0.3	H 0.1	R 7.4 R 7.3	R 64.8 R 70.2	R -97.2 R -91.4	0.7	H 380.1
2018 2019	0.0 0.0	R 34.1	18.8 18.2 R 13.4	4.6 4.7	(s)	0.0 0.0	(s) (s)	23.4 _ 22.9	0.3 0.3	R 0.2 R 0.2 R 0.2 R 0.2 R 0.3	R 8 1	H 65 7		-1.7 -2.7	R 391.7 R 404.2
2020	0.0	R 34.1 R 36.7	R 13.4	4.4	(s)	0.0	(s) (s)	H 17 9	0.3	R 0.2	R 8.1 R 10.4	n 65.5	R -85.7 R -47.7	-3.9	R 374.9 R 384.6
2021 2022	0.0 0.0	R 31.6 33.7	R 13.9 16.1	4.6 4.3	(s) (s)	0.0 0.0	0.0 0.0	R 18.5 20.4	0.3 0.3	H 0.3 0.3	R 11.8 13.7	R 62.5 68.5	R -59.7 -70.6	-4.1 -3.9	H 384.6 395.3
2022	0.0	33.1	10.1	4.3	(8)	0.0	0.0	20.4	0.3	0.3	13.7	00.5	-70.6	-3.9	395.3

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Montana

						Petroleum					Bior	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	67	55	4,898	737	265	6,922	2,063	4,234	19,118	0					4,575			
1970	40	85		1,326	649	9,262	1,243	5,338	22,644	0					8,750			
1980 1990	168 277	57 43	7,450 7,217	1,806 1,740	920 708	10,416 10,328	4,025	4,585 5,518	29,203 25,729	0					10,825 13,125			
2000	169	68	7,217 8.028	1,740	706	11,559	218 1	6,596	28,255	0					14,580			
2005	235	68		2,455	1,112	11,770	106	5,343	32,235	0					13,479			
2006	229	73	12,207	2,409	1,045	11,960	125	6,393	34,139	0					13,815			
2007	112	73	13,859	2,993	1,026	12,079	0	6,912	36,869	0					15,532			
2008 2009	102 70	76 75		2,989 2,586	832 792	11,626 11,844	0 59	6,337 5,816	34,638 32,611	0					15,326 14,354			
2010	82	75	9,837	2,349	1,126	11,906	1	5,661	30,881	0					13,771			
2011	90	74	10,525	2,530	1,104	11,735	4	6,058	31,956	0					13,788			
2012	243	68	10,014	2,071	1,123	11,887	(s)	6,006	31,101	0					13,863			
2013	263	72		2,003	857	12,144	1	5,664	31,198	0					14,045			
2014 2015	282 281	72 68		2,297 2,338	948 854	12,279 12,771	3	5,387 5,687	30,687 30.098	0					14,102 14,207			
2016	263	70		2,098	1.090	12,976	0	R 5,624	R 30,471	0					14,101			
2017	255	75		2,338	1,302	12,957	0	R 5,888	R 31.482	0					14,710			
2018	238	82		2,507	1,335	12,778	0	R 5,649	R 31,474	0					14,839			
2019	199	83		3,074	1,181	12,802	0	R 5,746 R 5,784	R 32,264 R 31,960	0					15,321			
2020 2021	202 233	78 77		2,824 2,768	1,313 1,331	12,021 13,135	0	R 5,683	R 32,093	0					14,584 14,962			
2022	252	82		3,509	1,192	13,029	0	5,545	32,334	0					15,584			
									Trillion	Btu								
1960	1.5	57.3	28.5	2.8	1.4	36.4	13.0	24.9	107.0	0.0	7.5	NA	. NA	NA	15.6	188.9	R 31.5	R 220.3
1970	0.8	88.0	28.1	5.0	3.6	48.7	7.8	32.8	126.0	0.0	5.9			NA	29.9	250.6	R 61.2	R 311.7
1980	3.2	57.1	43.4	6.7	5.2	54.7	25.3	28.1	163.3	0.0	10.9			NA	36.9		R 78.6 R 63.5	R 350.1 R 310.5
1990 2000	5.1 2.7	43.9 69.4	42.0 46.7	6.4 5.0	4.0 4.2	54.3 60.1	1.4 (s)	34.0 41.0	142.1 157.1	0.0	10.9 15.3			(s) (s)	44.8 49.7	247.0 294.5	R 77.5	R 372.0
2005	3.9	70.9		9.3	6.3	61.1	0.7	32.5	176.5	0.0	17.8			(s)	46.0	315.5	R 74.4	R 389.8
2006	3.8	74.6		9.1	5.9	62.0	0.8	39.2	187.9	0.0	17.1			(s)	47.1	330.9	R 74.9	R 405.8
2007	1.7	74.0		11.2	5.8	62.1	0.0	41.7	201.0	0.0	20.0			(s)	53.0		R 83.9	R 433.9
2008	1.7	77.1	74.3	11.3	4.7	59.4	0.0	38.2	188.0	0.0	18.5			(s)	52.3		R 81.5	R 419.3
2009 2010	1.1 1.3	76.0 72.2	66.5 56.8	9.9 9.0	4.5 6.4	60.3 60.3	0.4 (s)	36.0 35.3	177.6 167.8	0.0	12.7 13.5			(s) (s)	49.0 47.0		<sup>R</sup> 73.2 <sup>R</sup> 71.1	R 389.9 R 373.2
2010	1.4	74.7	60.7	9.7	6.3	59.4	(s)	37.8	174.0	0.0	5.3			(s)	47.0		R 59 6	R 362.4
2012	4.3	69.7	57.8	8.0	6.4	60.2	(s)	37.5	169.7	0.0	4.6			R (s)	47.3		R 61.2	R 357.2
2013	4.5	74.9		7.7	4.9	61.4	(s)	35.3	169.9	0.0	5.3			R (s)	47.9	_ 303.0	R 66.3	R 369.3
2014	4.9	74.3	56.3	8.8	5.4	62.1	(s)	33.6	166.2	0.0	5.7	0.0		R (s)	48.1	R 299.6	R 64.6	R 364.3
2015 2016	5.0 4.7	70.7 72.0	48.7 50.0	9.0 8.1	4.8 6.2	64.6 65.6	0.0 0.0	35.4 35.8	162.5 165.6	0.0 0.0	<sup>R</sup> 14.2 14.8			R (s) R (s)	48.5 48.1	<sup>R</sup> 301.2 305.7	<sup>R</sup> 67.0 <sup>R</sup> 63.5	R 368.2 R 369.1
2016	4.6	78.5	51.8	9.0	7.4	65.5	0.0	37.4	R 171.1	0.0	R 15.0			0.1	50.2	319.7	R 62.4	R 382.0
2018	4.4	85.4	53.0	9.6	7.6	64.6	0.0	35.9	170.7	0.0	18.8			R 0.1	50.6	R 330 3	R 63.1	R 393.4
2019	3.6	87.0	54.5	11.8	6.7	64.7	0.0	36.4	<sup>R</sup> 174.1	0.0	18.2	(s)	0.3	R 0.1	52.3	R 335.5	R 70.3	R 405.8
2020	3.6	83.9	57.7	10.8	7.4	60.7	0.0	36.6	173.3	0.0	R 13.3			R 0.1	49.8	R 324.3	R 52.5	R 376.8
2021	4.2	R 81.2		10.6	7.5 6.8	66.3	0.0	36.1	R 173.5	0.0	R 13.8			R 0.2 0.2			R 61.1	R 385.3 396.0
2022	4.6	85.9	52.2	13.5	0.8	65.8	0.0	35.3	173.5	0.0	16.0	0.0	0.3	0.2	53.2	333.7	62.3	396.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>&</sup>lt;sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

m Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Montana

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL °	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	18	17	262	488	0	750				935			
1965	13	17 20	262 277	488 614	0	891				1.216			
1970	7	25	249 589	856	0	1,106				1,534 2,143			
1975	3	24	589	939	0	1,528				2,143			
1980	3 2	19 19	421 309	799 583	0	1,220 901				2,916			
1985 1990	11	17	291	784	9	1,077				3,614 3,358			
1995	'1	20	218	456	i	674				3,640			
2000	(s)	20	170	890	(s)	1,060				3.908			
2005	(s) 12 13	20	169	1.732	1	1.902				4,221			
2006 2007	13	20 19 20	196	1,726	1	1,923				4,221 4,394 4,542			
2007	(s) 0	20	197	1,990	1	2,187				4,542			
2008		22 22 21	248	2,230	, 3	2,481				4,669			
2009 2010	0	22	115 109	2,362 1,966	(s)	2,477 2,075				4,790 4,743			
2010	0	22	99	2,089	1	2,075				4,743			
2012	Õ	19	99 93 80	1,638	(s)	1,731				4,778			
2013	Ö	21	80	1.606	(s)	1 686				4.926			
2014 2015	0	21 19	63 70	1,809 1,822	`1	1,873 1,892				4,969 4,825			
2015	0	19	70	1,822	(s)	1,892				4,825			
2016	0	19	67	1,609		1,678				4,853			
2017 2018	0	21 23	66 59 64	1,885 1,795	(s) (s)	1,951 1,854				5,225 5,198			
2019	0	23 24	59 64	2,483	(S) (S)	2,547				5,308			
2020	ő	22	47	2,205	6	2,258				5,380			
2021	Ö	21	75	2,047	(s)	2,122				5,559			
2022	0	23	77	2,605	(s) (s)	2,682				5,894			
							Trillion Btu						
1960	0.4	17.5	1.5	1.9	0.0	3.4	4.7	NA	NA	3.2	29.2	R <sub>6.4</sub>	R 35.7
1965 1970	0.3	19.9	1.6	2.4 3.3	0.0	4.0	3.6 2.8	NA	NA	4.1	32.0	R 8.2 P 10.7	R 40.1 R 49.2 R 57.0
1970	0.1	25.6	1.5	3.3	0.0	4.7	2.8	NA	NA	5.2	38.5	R 10.7	H 49.2
1975	0.1	24.6	3.4	3.6	0.0	7.0	3.1	NA	NA	7.3	42.0	R 14.9	H 57.0
1980 1985	0.1	19.5 19.4	2.5 1.8	3.1 2.2	0.0	5.5	2.5 3.9	NA NA	NA NA	9.9 12.3	37.5	n 21.2	R 58.7 R 64.8
1990	(s) 0.2	19.4	1.0	3.0	0.1	4.1 4.7	1.8			12.3	39.7 35.5	R 21.2 R 25.1 R 16.2 R 18.9	04.0 R 51.9
1995	(s)	17.3 20.2	1.7 1.3	1.8	(s) (s)	3.0	1.7	(s) (s)	(s) (s)	12.4	37.5	R 18.9	R 56.3
1995 2000	(s) (s) 0.2	20.6	1.0	3.4	(s)	4.4	1.9	0.1	(s)	13.3	40.3	H 20 8	R 51.8 R 56.3 R 61.1
2005	0.2	20.6	1.0	6.7	(s)	7.6	6.0	0.1	(s)	14.4	49.0	R 23.3 R 23.8 R 24.5	н 72 3
2006 2007	0.2	19.8 20.0	1.1	6.6	(s)	7.8 8.8	5.4	0.1	(s)	15.0	48.2	H 23.8	R 72.0 R 74.8
2007	(s) 0.0	20.0	1.1	7.6	(s)	8.8	5.9	0.1	(s)	15.5	50.3	H 24.5	H 74.8
2008 2009	0.0	21.9	1.4 0.7	8.6	(s)	10.0	6.6	0.1	(s)	15.9	54.6	R 24.8	79.4 B 75.0
2009	0.0 0.0	22.0 21.1	0.7	9.1 7.5	(s) (s)	9.7 8.2	3.2	0.1 0.1	(s) (s)	16.3 16.2	51.4 49.0	R 24.4	R 79.4 R 75.8 R 73.5 R 72.1 R 66.7 R 72.0
2011	0.0	22.1	0.6	8.0	(s)	8.6	3.4 3.3 2.8	0.2	(8)	16.8	50.9	R 21 2	R 72 1
2012	0.0	22.1 19.5	0.5	8.0 6.3	(s)	6.8	2.8	0.1	R (s)	16.3	50.9 45.6	R 21.1	R 66.7
2013	0.0	21.5	0.5	6.2	(s)	6.6	3.6	0.1	R (s)	16.8	H 48.7	R 23.3	R 72.0
2014	0.0	21.9	0.4	6.9	(s)	7.3	3.7	0.1	R (s)	17.0	R 50.0	R 22.8	R 72.8 R 77.2
2015	0.0	19.5	0.4	7.0	(s)	7.4	H 10 Q	0.1	H (s)	16.5	54.4	R 24.4 R 24.5 R 21.2 R 21.1 R 23.3 R 22.8 R 22.8	H 77.2
2016 2017	0.0	19.7 22.4	0.4	6.2 7.2	(s)	6.6	R 11.2 R 10.9	0.1	R (s) R (s)	16.6	54.2 R 58.8	R 21.8 R 22.2	R 76.0 R 81.0
2017	0.0 0.0	22.4 23.6	0.4 0.3	7.2 6.9	(s) (s)	7.6 7.2	110.9	0.1 0.1	n (s) 0.1	17.8 17.7	R 63.2	R 22.1	81.0 R 85.3
2018	0.0	25.1	0.3	9.5	(S) (S)	9.9	14.5 1 <u>4</u> .1	0.1	R 0 1	17.7	R 67 /	R 24 4	R 91 8
2020	0.0	23.4	0.4	8.5	(s)	8.8	14.1 R 9.1	0.1	R 0.1	18.4	R 59.8	R 19.4	R 85.3 R 91.8 R 79.2
2021	0.0	22.3	0.4	8.5 7.9	(s)	8.3	H 9.6	0.1	R 0.1 R 0.1	19.0	R 67.4 R 59.8 R 59.5	R 24.4 R 19.4 R 22.7	n 82.2
2022	0.0	24.5	0.4	10.0	(s)	10.5	11.9	0.1	0.1	20.1	67.2	23.6	90.8
					-								

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Montana

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	12	12 14	297	107	466 227	135	2	1,007 822	NA			NA	688 925			
1965 1970	10 5	14 19	315 283	135 188	227 94	144 220	1	822 786	NA NA			NA NA	925 1,187			
1975	7	19	668	206	54	174	2	1,105	NA			NA	1,645			
1980 1985	11 6	14 15	346 772	175 128	0 (s)	92 72	7 126	620 1,098	NA NA			NA NA	2,094 4,245			
1990	46	12	154	172	(s)	84	11	421	0			(s)	3,237			
1995 2000	9	13 14	102 143	100 195	(s) (s)	13 14	3	218 353	0			(s) (s)	3,411 4,104			
2005	133	13	163	414	7	15	ó	600	Ō			(s)	4,473			
2006 2007	127 2	13 13	215 175	344 316	(s) (s)	16 15	0	574 506	0			(s)	4,686 4,828			
2008	11	14	229	428	`1	17	Ö	675	Ö			į	4,826			
2009 2010	10 7	24 20	145 105	183 291	0 (s)	15 15	32	376 412	0			1	4,791 4,789			
2011	9	22	123	303	(s)	15	4	445	ŏ			1	4,892			
2012 2013	5	19 21	106 104	375 309	(s) (s)	14 15	(s)	496 430	0			2	4,918 4,890			
2014	1	22	85	395	(s)	14	3	497	Õ			2	4,903			
2015 2016	2	20 21	53 129	387 422	(s) (s)	148 149	0	588 700	0			3	4,894 4,832			
2017	2	23	116	359	(s)	150	Ö	625	Õ			4	4,970			
2018 2019	3	23 26 28	96 87	604 434	`Ó (s)	152 153	0	852 674	0			6 7	4,921 4,956			
2020	1	26	98	529	(s)	154	Ö	781	Õ			10	4,702			
2021 2022	1 2	25 27	98 100	597 681	(s) (s)	156 162	0	851 943	0			12 14	4,906 5,020			
					. , ,			Tri	llion Btu				·			
1960 1965	0.3 0.2	12.3	1.7	0.4 0.5	2.6	0.7	(s)	5.5	NA	0.1	NA	NA	2.3 3.2	20.5 22.0	R 4.7	R 25.2 R 28.2
1965 1970	0.2 0.1	14.1 19.2	1.8 1.6	0.5 0.7	1.3 0.5	0.8 1.2	(s) (s) (s)	4.4 4.1	NA NA	0.1 0.1	NA NA	NA NA	3.2 4.1	22.0 27.4	R 6.2 R 8.3	R 28.2 R 35.7
1975	0.2	19.0	3.9	0.8	0.3	0.9	(s)	5.9	NA	0.1	NA	NA	5.6	30.8	R 11.5	R 42.2
1980 1985	0.2	14.4 14.8	2.0 4.5	0.7 0.5	0.0 (s)	0.5 0.4	(s) 0.8	3.2 6.2	NA NA	0.1 0.1	NA NA	NA NA	7.1 14.5	25.1 35.7	R 15.2 R 29.4	R 40.3 R 65.1
1985 1990	0.1 0.9	12.5	0.9	0.7	(s)	0.4	0.1	2.1	0.0	0.2	0.1	(s)	11.0	35.7 26.7	R 29.4 R 15.7	R 65.1 R 42.4
1995 2000	0.2 (s)	13.9 13.9	0.6 0.8	0.4 0.8	(s) (s)	0.1 0.1	(s) (s) 0.0	1.1 1.7	0.0 0.0	0.2 0.3	0.1 0.2	(s) (s)	11.6 14.0	27.1 30.0	R 17.7 R 21.8	R 44.7 R 51.9
2005	(s) 2.4	13.7	0.9	1.6	(s)	0.1	0.6	2.7	0.0	1.0	0.2	(s)	15.3	35.1	R 24.7	R 59.8
2006 2007	2.3 (s) 0.3	13.4 13.4	1.2 1.0	1.3 1.2	(s) (s)	0.1 0.1	0.0 0.0	2.6 2.3	0.0 0.0	0.9 1.0	0.2 0.1	(s) (s)	16.0 16.5	35.4 33.3	R 25.4 R 26.1	R 60.8 R 59.4
2008	0.3	14.6	1.3	1.6	(s)	0.1	0.0	3.1	0.0	1.0	0.1	(s)	16.5	35.5	R 26.1 R 25.6	R 61 2
2009 2010	0.2 0.2	23.8 20.7	0.8 0.6	0.7 1.1	0.0 (s)	0.1 0.1	0.2 (s)	1.8 1.8	0.0 0.0	0.4 0.4	0.1 0.1	(s) (s)	16.3 16.3	42.8 39.6	R 24.4 R 24.7	R 67.3 R 64.3
2011	0.2	22.7	0.7	1.2	(s)	0.1	(s)	2.0	0.0	0.4	0.1	(s)	16.7	42.2	R 21.1 R 21.7	R 63.3
2012 2013	0.1 (s)	19.7 21.7	0.6 0.6	1.4 1.2	(s) (s)	0.1 0.1	(s) (s)	2.1 1.9	0.0 0.0	0.4 0.4	0.1 0.1	(s) (s)	16.8 16.7	39.2 40.9	R 23.1	R 61.0 R 63.9
2014	(s)	22.1	0.5	1.5	(s)	0.1	(s) 0.0	2.1	0.0	0.5	0.1	(s)	16.7	41.6	R 23.1 R 22.5	R 64 0
2015 2016	0.1 (s)	20.1 22.0	0.3 0.7	1.5 1.6	(s) (s)	0.7 0.8	0.0 0.0	2.5 3.1	0.0 0.0	1.6 2.0	0.1 0.1	(s) (s)	16.7 16.5	41.2 43.8	R 23.1 R 21.7	R 64.3 R 65.5
2017	(s)	24.3	0.7	1.4	(s)	0.8	0.0	2.8	0.0	2.0	0.1	(s) R (s)	17.0	46.3	R 21.1	R 67 4
2018 2019	0.1 (s)	27.4 29.2	0.6 0.5	2.3 1.7	0.0 (s)	0.8 0.8	0.0 0.0	3.6 2.9	0.0 0.0	2.2 2.0	0.1 0.1	R (s)	16.8 16.9	50.3 51.3	R 20.9 R 22.8	R 71.2 R 74.0
2020	(s)	27.5	0.6	2.0	(s)	0.8	0.0	3.4	0.0	2.1	0.1	R (s) R (s)	16.0	49.2	R 16.9	R 66.1
2021 2022	(s) (s)	26.1 28.5	0.6 0.6	2.3 2.6	(s) (s)	0.8 0.8	0.0 0.0	3.6 4.0	0.0 0.0	2.2 2.2	0.1 0.1	(s)	16.7 17.1	R 48.9 52.1	R 20.0 20.1	R 68.9 72.1
	\-/				\-/							(-/				

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Montana

					Petrol	eum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
960	36	26	1 500	112	816	1 684	2 624	6 737	0				NA	2 951			
960 965 970 975 980 985 990 995 2000 2005 2006 2007 2008 2009	36 52 28	26 34	1,500 1,693 1,274	112 164 246	816 887	1,684 914 1,123	2,624 3,901	6,737 7,559 8,324	ŏ				NA NA	2,951 3,939			
970	28	41	1,274	246	635	1,123	5 047	8,324	0				NA	6 020			
975	50 154	34 20	2,494 1,925	174 786	774 619	1,963 4,018	4,810 4,229 4,022 5,205 4,936 6,258	10,215 11,577 10,712 9,522 8,432 8,795	0				NA NA				
980	154	10	5,192	814	677	4,018	4,229	10,577	0				NA NA	5,815			
990	225 220 622 166	12	2.778	717	615	207	5,205	9.522	ŏ				(s)	6.529			
995	622	12 20	2,283	333 227	615 646	233	4,936	8,432	Ö				(s)	6,368			
2000	166	26 27 33 32 33 25 23 23 23 24 25	1.904	227	406		6,258	8,795	0				(s)	6,568			
2005	89 89	27	3,519	287 322 676 295 31	638	106	5,115	9,665 10,920	0				(s)	4,784 4,735			
2006	89	33	3,673 4,474	322	694	95 0	6,137 6,667	10,920	0				0	4,/35			
2007	110 90	32	4,474	295	501 359 357	0	6,081	12,318 11,059 9,811	0				0	6,163 5,831 4,773			
2009	60	25	3,800	31	357	27	5,596	9.811	0				0	4.773			
2010 2011 2012 2013 2014 2015	74	23	2.149	86	295	0	5.484	8.013	Ö				Ö	4.239			
2011	81	23	2,372	132 53 83	296 274	0	5.886	8,686 8,745 8,469	0				0	3,983			
2012	238 262	23	2,568 2,591	53	274	, 0	5,850 5,504	8,745	0				0	4,168 4,229			
2013	262	24	2,591 2,416	83	290	(s) 0	5,504	8,469	0				0	4,229			
2014	281 279	25	2,416 1,658	90 125	284 348	0	5,210 5,500	8,000 7,632	0				0	4,230 4,488			
015	261	25	1,418	63	339	0	5,300	7,032	0				0	4,400			
2016 2017	261 252	25 27	1,448	63 88	341	ő	R 5.728	R 7,605	ő				ő	4,416 4,515			
2018	235 197	29 28	1,543	97	347	Ö	R 5,489	7,269 R 7,605 R 7,477	Ö				Ö	4,720 5,057			
2019	197	28	1,854	147	342	0	R 5,594	H 7 038	0				0	5,057			
2020 2021	201	28	1,746	76	346 336	0	n 5,625	R 7,793 R 7,552	0				0	4,502			
2021	201 232 250	28 29	1,567 1,584	121 214	365	0	R 5,449 R 5,728 R 5,489 R 5,594 R 5,625 R 5,526 5,384	7,547	0				(s)	4,496 4,670			
.022	230	20	1,504	217	000	0	3,304	7,547	Trillion Bt				(3)	4,070			
																Paga	Pinin
960 965	0.8 1.2	27.0 34.3	8.7 9.9	0.4 0.6	4.3 4.7	10.6 5.7	16.3 24.1	40.3 45.0	0.0	2.7 3.7	NA NA	NA NA	NA NA	10.1 13.4	80.9 97.6	11 20.3 B oc 4	" 101.2 B 101.0
900	0.6	42.5	7.4	0.6	3.3	7.1	24.1	45.0	0.0	3.7	INA NA	NA NA	NA NA	20.6	116.5	R 42 1	R 158 6
975	1.0	34.6	14.5	0.6	4.1	12.3	29.5	49.8 61.0	0.0	3.0	NA NA	NA	NA NA	17.6	117.2	R 36.0	R 153.0
970 975 980	1.0 2.9	20.3	14.5 11.2	2.8	4.1 3.3	12.3 25.3	31.1 29.5 26.1	68.6	0.0	8.3	NA	NA	NA NA	20.6 17.6 19.8	120.0	R 42.2	R 162.2
985 990 995 2000 2005	4.1	10.3	30.2	2.8	3.6 3.2	(s) 1.3	25.4 32.3	62.1 55.4	0.0	9.8	0.1	NA	NA	19.9 22.3 21.7 22.4 16.3 16.2	106.3 102.8	R 40.5	R 146.8
990	4.0	12.0	16.2	2.5	3.2	1.3	32.3	55.4	0.0	8.9	0.1	(s)	(s)	22.3	102.8	H 31.6	H 134.4
995	11.2	21.0	13.3	1.2 0.8	3.4	1.5	30.6	49.8	0.0	14.4	0.1	(s) 0.1	(s) (s)	21.7	118.4	H 33.0	" 151.4 B 450.0
2000	11.2 2.7 1.3 1.3	27.1 28.3	11.1 20.5	1.0	2.1 3.3	0.0 0.7	39.1 31.2	53.1 56.6 64.4	0.0	13.1 10.8 10.9	(s) 0.0	0.1	(8)	22.4 16.3	118.4 113.5	R 26.4	R 139 9
2006	1.3	33.7	21.3	1.1	3.6	0.6	37.8	64.4	0.0	10.9	0.0	0.1	(s) 0.0	16.2	126.4	R 25.7	R 152.1
2007 2008 2009 2010 2011	1.6	32.6	25.9	2.3	2.6	0.0	40.3	71.1 64.6	0.0	13.1 10.8 9.1 9.7 1.5	0.0	0.1	0.0	21.0	139.5 130.0 110.1 96.6 91.9	R 33.3	R 172.8
8009	1.4	33.2	25.9 25.0	1.0	1.8	0.0 0.0	40.3 36.8	64.6	0.0 0.0	10.8	0.0 (s) (s) 0.0 0.0	0.1	0.0	19.9	130.0	R 31.0	R 161.0
2009	0.9	25.0	22.0	0.1	1.8	0.2	34.8	58.8	0.0	9.1	(s)	0.1	0.0	16.3	110.1	H 24.3	H 134.5
2010	1.1	22.8	12.4	0.3	1.5 1.5	0.0	34.8 34.2 36.8	58.8 48.5 52.5	0.0 0.0	9.7	0.0	0.1	0.0	14.5	96.6	P 21.9	H 118.5
2011 2012	1.2 4.2	23.0 23.3	13.7 14.8	0.5 0.2	1.5 1.4	0.0 0.0	36.8 36.6	52.5 53.0	0.0	1.5 1.4	0.0	0.1 0.1	0.0 0.0	21.0 19.9 16.3 14.5 13.6 14.2	91.9 96.2	R 20.3 R 26.4 R 42.1 R 36.0 R 44.5 R 31.0 R 34.9 R 25.7 R 33.0 R 21.9 R 17.2 R 17.2 R 17.2	11 109.1 R 114.6
012	4.2 4.5	24.7	14.8	0.2	1.4	0.0	34.3	51.1	0.0	1.4	0.0	0.1	0.0	14.2	96.2 96.0	R 20 0	R 116.0
2013 2014	4.5 4.9	26.0	14.9 13.9	0.3 0.3	1.4	(s) 0.0	34.3 32.6	48.3	0.0	1.3 1.6	0.0 0.0	0.1	0.0	14.4	96.0 95.3	R 19.4	R 114.7
2015	5.0	26.4 25.5	9.6 8.2	0.5	1.8	0.0	34.3	46.1	0.0	1.7	0.0	0.1	0.0	15.3	94.6	R 21.2	R 115.8
2016	5.0 4.7 4.5 4.3	25.5	8.2	0.2	1.7 1.7	0.0	34.3 34.8 36.5 35.0	46.1 44.9 46.9	0.0	1.7	(s)	0.1	0.0	15.1	94.6 91.9 96.8	R 19.9	R 111.8
2017	4.5	27.8	8.3	0.3	1.7	0.0	36.5	46.9	0.0	2.1	(s)	0.1	0.0	15.4	96.8	H 19.1	H 116.0
2018	4.3	29.9	8.9	0.4	1.8	0.0	35.0	46.0	0.0	2.1	(s)	0.1	0.0	16.1	98.5	D 20.1	n 118.6
2019	3.5	29.1 29.5	10.7 10.0	0.6 0.3	1.7	0.0	35.5	48.5	0.0 0.0	2.1 2.1	(s)	0.1 0.1	0.0	17.3	100.5	R 16.0	R 114 6
2020	3.5 3.6 4.2 4.5	29.5 29.6	9.0	0.3	1.7 1.7	0.0 0.0 0.0	35.5 35.7 35.2	48.5 47.8 46.4	0.0	1.9	(s) 0.0	0.1	0.0	15.4 15.3 15.9	100.5 98.4 97.6	R 20.0 R 19.4 R 21.2 R 19.9 R 19.1 R 20.1 R 23.2 R 16.2 R 18.4	R 101.2 R 124.0 R 158.6 R 153.2 R 162.2 R 146.8 R 134.4 R 151.4 R 151.3 R 161.0 R 146.5 R 118.5 R 118.5 R 118.6 R 116.0 R 114.6 R 116.0 R 116.
2022	1.5	30.3	9.1	0.8	1.8	0.0	34.4	46.2	0.0	1.9	0.0	0.1	(s)	15.0	98.9	18.7	117.6

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Montana

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	1	(s) (s)	1,006 312 43 79	2,839 2,676 3,020	29 13 36	265 384 649	137 148 154	5,972 6,678	377	10,624 10,536 12,428	0			
1965 1970	(s) (s)	(s)	312	2,676	13	384	148	6,678 8,407	325 119	10,536	0			
1975	(s) 0	2	79	3,835	50 45	818	162 196	9,682	160	14 786	0			
1980		3	159	3,835 4,759 4,132	45	920	196	9,682 9,705	0	15,786	0			
1985 1990	0	2	91 111	4,132 3,993	51 67	678 708	179 201	9,439 9,630	(s)	14,569 14,709	0			
1995	ŏ	4	78	5,390	28	1,052	192	10,669	ŏ	17,409	ŏ			
2000	0	8	134	5,812	11	747	205	11,139	0	18,047	0			
2005 2006	0	8 8	47 87	7,597 8,122	22 18	1,112 1,045	173 168	11,117 11,251	30	20,069 20,722	0		 	
2007	ŏ	8	69	9.013	12	1.026	168 174	11.563	Ő	21.858	ŏ			
2008 2009	0	7	90 75	8,055 7,454	35 10	832 792	161 145	11,250 11,471	0	20,424 19,946	0			
2009	0	5 7	75 47	7 475	6	1,126	129	11,471	0	20,380	0			
2011	Ö	7	44 41	7,931 7,247	6	1,104	127 115	11,424 11,598	Ö	20,635	Ŏ			
2012	0	7	41	7,247	5	1,123	115	11,598	0	20,128	0			
2013 2014	0	4	37 55 57	7,754 7,209	4	857 948	123	11,839 11,981	0	20,614 20,317	0	 	 	
2015	Ö	4	57	6,666	4	854	129	12,276	Ö	19,986	Ö			
2016 2017	0	5	49	7,068 7,368	4 5	1,090	H 125	12,488 12,466	0	R 20,825 21,300	0			
2017	0	4	44 49	7,506 7,507	10	1,302 1,335	123 122 129 R 125 116 R 110	12,466	0	21 291	0		 	
2019	Ö	3	46	7 456	9	1,181	'' 10h	12,307	Ö	R 21 105	Ö			
2020 2021	0	3 3	48 48	8,127 R 7,435	14 3	1,313 1,331	R 105 R 106	11,521 12,642	0	21,128 R 21,568	0		 	
2022	0	3	49	7,433	9	1,192	111	12,502	ő	21,162	0			
							Tri	Ilion Btu						
1960	(s)	0.5 0.4 0.7	5.1	16.5	0.1	1.4	0.8 0.9	31.4 35.1	2.4	57.7	0.0	58.2	0.0	58.2 57.8
1965	(s)	0.4	1.6 0.2	15.6 17.6	0.1 0.1	2.1	0.9 0.9	35.1 44.2	2.0 0.7	57.3 67.4	0.0 0.0	57.8 68.1	0.0 0.0	57.8
1970 1975	(s) (s) (s) (s)	1.8	0.4	22.3	0.1	3.6 4.6	1.0	50.9	1.0	80.4	0.0	82.2	0.0	68.1 82.2
1980	0.0	2.9 2.2 2.1 4.1	0.8	27.7	0.2	5.2 3.8	1.2 1.1	51.0	0.0	86.0	0.0	88.9	0.0	88.9 81.5 82.0
1985 1990	0.0 0.0	2.2	0.5 0.6	24.1 23.3	0.2 0.3	3.8 4.0	1.1	49.6 50.6 55.5	(s) 0.0	79.2 79.8	0.0 0.0	81.5 82.0	0.0 0.0	81.5 82.0
1995	0.0	4.1	0.4	31.4	0.1	5.9	1.2 1.2	55.5	0.0	94.4	0.0	98.5	0.0	98.5
2000	0.0	7.9	0.7	33.8	(s)	4.2	1.2	57.9 57.7	0.0	97.9	0.0	105.8	0.0	105.8
2005 2006	0.0 0.0	8.3 7.7	0.2 0.4	44.2 47.1	0.1 0.1	6.3 5.9	1.0 1.0	57.7 58.3	0.0 0.2	109.6 113.1	0.0 0.0	117.9 120.9	0.0 0.0	117.9 120.9
2007 2008	0.0	7.7 7.9 7.4	0.4	52.1 46.6	(s)	5.9 5.8 4.7	1.1	59.5 57.4	0.0	118.9	0.0	126.8	0.0	126.8
2008	0.0	7.4	0.5	46.6	0.1	4.7	1.0	57.4	0.0	110.3	0.0	117.8	0.0	117.8
2009 2010	0.0 0.0	5.1 7.5	0.4 0.2	43.1 43.2	(s) (s)	4.5 6.4	0.9 0.8	58.4 58.8	0.0 0.0	107.2 109.4	0.0 0.0	112.3 116.9	0.0 0.0	112.3 116.9
2011	0.0	7.0	0.2	45.8	(s)	6.3	0.8	58.8 57.8	0.0	110.9	0.0	117.9	0.0	117.9
2012 2013	0.0	7.2 7.0	0.2 0.2	41.8 44.7	(s)	6.4 4.9	0.7 0.7	58.7 59.9 60.6	0.0 0.0	107.8 110.4	0.0	114.9 117.4	0.0 0.0	114.9 117.4
2013	0.0 0.0	7.0 4.2	0.2	44.7 41.5	(s)	4.9 5.4	0.7	59.9 60.6	0.0	108.6	0.0 0.0	117.4	0.0	117.4
2015	0.0	4.6	0.3	38.4	(s) (s)	5.4 4.8	0.8	62.1	0.0	106.4	0.0	111.1	0.0	111.1
2016 2017	0.0 0.0	4.8 3.9	0.2 0.2	40.7 42.4	(s) (s)	6.2 7.4	0.8 0.7	63.1 63.0	0.0 0.0	111.0 113.7	0.0 0.0	115.8 117.7	0.0 0.0	115.8 117.7
2017	0.0	3.9 4.5	0.2	43.2	(S) (S)	7. <del>4</del> 7.6	0.7 0.7	62.1	0.0	113.8	0.0	117.7	0.0	117.7
2019	0.0	4.5 3.6	0.2	42.9	(s)	7.6 6.7 7.4	0.6	62.1 62.2 58.2	0.0	112.7	0.0	116.3	0.0	116.3
2020	0.0	3.5	0.2	46.8 R 42.9	0.1	7.4	0.6	58.2	0.0	113.4 R 115.0	0.0	116.9 R 118.3	0.0	116.9 R 118.3
2021 2022	0.0 0.0	R 3.1 2.6	0.2 0.2	42.1	(s) (s)	7.5 6.8	0.6 0.7	63.8 63.1	0.0 0.0	113.4 R 115.2 112.9	0.0 0.0	R 118.3 115.6	0.0 0.0	R 118.3 115.6
					.,									

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Montana

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
960	187	(s) 2	(s)	0	(s)	(s)	0	5,801		0	NA	NA	-1	
965 970	296 723	`ź	(s) (s) (s)	0	1	1	0	8,389 8,745		0	NA	NA	-1	
970 975	723 1.089	3	(S)	0	26 53	26 54	0	8,745 10,166		0	NA NA	NA NA	-1 -2	
980 985	1,089 3,352	4	59 38	ő	0	54 59 38	ő	9,966		ŏ	NA	NA	-2	-
985	5,480	(s)	38	0	0	38	0	10,175		0	0	(s)	70	-
990	9,573	(s) (s)	63 57	1 222	0	63 1,278	0	10,717 10,746		0	0	0	47 (s)	_
995 000	9,641 10,385	(S)	41	1,222 1,356 1,258	0	1,397	0	9,623		0	0	0	(s) -3	_
005	11.588	(s)	18	1,258	Ö	1.276	Ö	9.587		Ö	Ö	Ö	9	-
006 007	11,302 11,929	1	25 21	1,279 1,244	0	1,303 1,264	0	10,130 9,364		0	0	436 496	-214 -54	-
007	11,929 12,012	1	21 14	1,244 1,164	0	1,264 1,178	0	9,364 10,000		0	0	496 593	-54 -248	-
009 010	10,151	i	17	1,348 1,138	0	1,366 1,154	0	9,506		0	0	821	-288 -375	_
010	12 005	1	17	1,138	0	1,154	0	9.415		0	0	930	-375	-
011 012	9,758 9,057 9,562	5	28 14	1,320 1,344 1,323	0	1,348 1,358 1,342 1,253	0	12,596 11,283		0	0	1,265 1,262 1,755 1,974	-369 -175 -348 -979	_
013	9,057	5 7	19	1,344	0	1,336	0	9,638		0	0	1,202	-175 -348	-
014	10.180	6	45 12	1,208	ŏ	1,253	ŏ	11.483		ŏ	ŏ	1,974	-979	-
15	10,277	7	12	1,458	0	1,470	0	9,888		0	0	1,965	-174	-
)16 )17	9,328 8,944	5	21 15	1,365 1,386	0	1,386 1,401	0	10,083 10,946		0	0 14	2,140 2,155	124 191	-
)18	8 733	5 5	24	1,366	0	1,260	0	11 405		0	34	2,153	-493	_
018 019	8,733 9,275	5	24 23	1,236 1,278	Ö	1,301	Ö	11,405 10,005		Ŏ	34 29	2,153 2,373	-493 -793	_
020	5,624 6,908	3	19	1,326	0	1,345	0	10,748		0	33	3,059	-1,154	-
021 022	6,908 7,395	6 8	18 23	1,339 1,277	0	1,357 1,300	0	9,258 9,886		0	33 33 32	3,059 3,473 4,022	-1,198 -1,140	-
							Trillion Btu							
960 965	2.5 3.9 11.2	0.4	(s) (s)	0.0 0.0	(s) (s)	(s) (s) 0.2	0.0	R 19.8	0.0	0.0	NA	NA	(s) (s)	R 22.7 R 34.9
965	3.9	2.0 2.6	(S)	0.0	(s) 0.2	(S)	0.0 0.0	R 20.8	0.4 0.8	0.0 0.0	NA NA	NA NA	(S) (S)	11 34. R 44
975	17.4	1.2	(s) (s) 0.3 0.2	0.0 0.0	0.3 0.0	0.2	0.0 0.0	R 28.6 R 29.8 R 34.7	0.1	0.0	NA	NA	(s)	R 44 R 53 R 95 R 131 R 202 R 208 R 215
975 980 985	57.0	4.4	0.3	0.0	0.0	0.3 0.3 0.2	0.0	R 34.0	0.2	0.0	NA	ŅĄ	(s)	R 95
985	94.8	0.6	0.2	0.0	0.0 0.0	0.2	0.0	R 26.6	0.6 0.8	0.0 0.0	0.0 0.0	(s) 0.0	0.2	R 131
990 995	163.7 163.8	0.5 0.4	0.4 0.3	0.0 7.4	0.0	0.4 7.7	0.0 0.0	R 34.0 R 34.7 R 36.6 R 36.7 R 32.8	0.0	0.0	0.0	0.0	(s)	R 208
200	174 1	0.2	0.2	8.2	0.0	8.4	0.0	R 32.8	0.0	0.0	0.0	0.0	(s)	R 215
005 006	195.6 190.5	0.2 0.5	0.1 0.1	7.2 7.3 7.1	0.0 0.0	7.3 7.5 7.2 6.7 7.8	0.0 0.0	R 32.7 R 34.6 R 32.0 R 34.1	0.0 0.0	0.0	0.0 0.0	0.0	(s) 0.2 (s) (s) (s) -0.7 -0.2 -0.8 -1.0	H 235
007	200.8	1.0	0.1	7.3 7.1	0.0	7.5 7.2	0.0	R 32.0	0.0	0.0 0.0	0.0	" 1.5 R 1 7	-0.7	R 235 R 235 R 242 R 244 R 214
008 009	201.6 171.7	0.5 0.7	0.1	6.7	0.0	6.7	0.0	R 34.1	0.0	0.0	0.0	R 2.0	-0.8	R 24
009	171.7	0.7	0.1	6.7 7.7 6.5	0.0	7.8	0.0	R 32.4	0.0	0.0	0.0	R 2.8	-1.0	R 21
010	202.0	0.7	0.1	6.5	0.0 0.0	6.6 7.7	0.0	H 32.1	0.0 0.0	0.0	0.0	H 3.2	-1.3	R 24
)11 )12	164.2 153.0	4.0 5.5	0.2 0.1	7.5 7.7	0.0	7.7 7.8	0.0 0.0	R 38 5	0.0	0.0 0.0	0.0 0.0	R4.3	-1.3 -0.6	R 20
013	161.6	4.8 5.5 7.4	0.1	7.5 7.7 7.6	0.0	7.8 7.7	0.0	R 32.4 R 32.1 R 43.0 R 38.5 R 32.9	0.0	0.0	0.0	R 6.0	-1.3 -0.6 -1.2	R 212
014	170.5 173.4	5.8 6.7	0.3 0.1	6.9 8.3	0.0	7.2 8.4	0.0	R 39.2 R 33.7 R 34.4	0.0	0.0	0.0	0.0 R 1.5 R 1.7 R 2.0 R 2.8 R 3.2 R 4.3 R 6.0 R 6.7	-3.3 -0.6	R 222 R 208 R 214 R 226 R 228
015 016	173.4 157.2	6.7 5.5	0.1 0.1	8.3 7.8	0.0 0.0	8.4 7.9	0.0 0.0	n 33.7 R 34.4	0.0 0.0	0.0 0.0	0.0	<sup>п</sup> б.7 В то	-0.6 0.4	R 212
017	151.5	4.8		7.0	0.0	8.0	0.0	R 37.3	0.0	0.0	0.0 R (s) R 0.1	R 7.3 R 7.4 R 7.3	0.4	R 200
017 018	151.5 147.9	4.8 5.3	0.1 0.1	7.9 7.1	0.0	7.2	0.0	R 38.9	0.0	0.0	P 0.1	R 7.3	0.7 -1.7	R 209 R 209
019	155.6	5.7 3.6	0.1	7.3 7.6	0.0	7.4 7.7	0.0	H 34.1	0.0	0.0	R 0.1 R 0.1	H 8.1	-2.7 -3.9	H 208
020	95.3 118.6	3.6 5.9	0.1 0.1	7.6 7.7	0.0 0.0	7.7 7.8	0.0 0.0	R 37.3 R 38.9 R 34.1 R 36.7 R 31.6 33.7	0.1 0.1	0.0 0.0	R 0.1	R 8.1 R 10.4 R 11.8 13.7	-3.9 -4.1	R 208 R 149 R 171
2022	126.8	8.1	0.1	7.7 7.3	0.0	7.4	0.0	22.7	0.1	0.0	0.1	12.7	-3.9	186

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Nebraska

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthoui	rs	Thousan	d barrels
1960	888	136	4,151	2,650	1,202	14,998	415	2,314	25.731	0	959	0	NA	NA
1965 1970	896 1,283	166 222	3,689 7,449	3,407 5,616	1,371 1,783	15,745 18,525	415 332 793	2,331 2,499	25,731 26,875 36,665	-5 0	1.116	0	NA NA	NA NA
1971	1,174	224	7,613	5,468	1,812	19,231	579	2,570	37,273	Ö	1,371 1,359	0	NA	NA
1972 1973	1,488 1,685	225 230	9,097 9,307	6,006 5,593	1,721 1,665	20,414 20,948	720 670	2,370 2,536	40,329 40,719	0 599	1,372 1,371	0	NA NA	NA NA
1974	1.561	230 223	8,847	5,593 5,289	1,797	20,412	1.049	2.441	39.836	3,996	1.294	Ö	NA	NA
1975 1976	1,595 2,626	219 199	8,507 10,426	5,740 6,552	1,679 1,692	20,636 21,580	1,092 1,505	2,092 2,045	39,745 43,800	5,916 5,824	1,213 1,276	0	NA NA	NA NA
1977	2.846	189 163	10,916	5 922	1,771	21,810 22,075	1 088	2,376 2,833	43,882 46,260	7 452	1,221 1,187	Ö	NA	NA
1978 1979	2,967 4,058	163 170	12,630 12,862	5,469 4,682	1,989 1,900	22,075 20,478	1,266 707	2,833 1,625	46,260 42,254	7,725 8,658	1,187 1,246	0	NA NA	NA NA
1980	4,990	163	9,149	4,499	1,588	19,100	228 70	1,625 1,512	42,254 36,076	5,783	1,246 1,336	0	NA	NA
1981 1982	5,459 5,399	138 138	8,200 9,253	4,023 4,788	1,466 1,453	18,333 18,261	70 191	1,495 1,361	33,588 35,308	5,988 8,753	1,197 1,212	0	86 213	NA NA
1983	5 928	129	11.547	4.818	1 482	17,905	105	1.293	37,150	6.082	1,346	Ŏ	426	NA
1984 1985	6,939 6,653	129 134 126	12,003 12,411	2,118 2,590	1,385 1,357	17,905 17,871 17,737	105 70 62	1,279 1,073	37,150 34,726 35,229	5,780 4,134	1,346 1,345 1,441	0	467 456	NA NA
1986	6,288	105	12,024	2,449	1,353	17,757	252 265	1,680	35,515 37,273	7,658	1,678 1,567	Ö	470	NA
1987 1988	6,744 8,057	109 122	12,606 14 121	3,218 3,500	1,373 1,505	17,885 18,609	265 412	1,925 1,917	37,273 40,063	8,589 6,828	1,567 1,350	0	589 627	NA NA
1989	8,057 7,587	120	14,121 12,894	3,500 3,622	1,488	18,427	373	1,917 1,735	40,063 38,539	6,828 8,077	1,350 1,158	Ō	784	NA
1990 1991	8,266 8,859	111 116	12,848 12,949	2,912 3,167	1,501 1,192	18,451 17,801	257 199	2,011 1,903	37,980 37,211	7,511 8,048	1,140 1,045	0	710 837	NA NA
1992	8.212	107	13.848	3.225	1.198	17.951	185	1.390	37,797	8.748	1.075	Ö	987	NA
1993 1994	9,666 9,300	126 127	13,847 14,595	2,984 3,080	1,157 1,259	18,029 18,043	275 212	1,293 1,544	37,797 37,586 38,734 39,475	6,805 6,345	1,002 1,312	0	807 545	NA NA
1995	10,396	136 133	14,599	3,020	1,001	19,302	121	1,433	39,475	7,485	1,312 1,426 1,602	Ō	647	NA
1996 1997	10,379 11,210	133 132	16,644 16,848	3,831 3,130	1,007 1,075	19,474 19,825	167 110	2,263 1,978	43,386 42,966	9,457 9,269	1,602 1,672	0	419 478	NA NA
1998	11,889	131	16,848 18,646	3.300	1.081	20.305	116	1.918	45,366	8,259	1.683	Ō	504	NA
1999 2000	11,625 11,910	121 127	17,754 14,937	3,665 3,830	1,564 1,231	20,487 20,457	77 142	2,383 1,441	45,930 42,038	10,091 8,629	1,719 1,501	0	589 793	NA NA
2001	13,130 12,605	122 120	14 207	3.615	1.113	20.392	127 124	1,376 1,310	40,831 42,685	8.726	1,124 1,097	3	661	4
2002 2003	12,605 13,115	120 119	13,936 15,406	4,943 4,328	1,527 1,205	20,846 20,673	124 142	1,310 1,810	42,685 43,564	10,122 7,997	1,097 980	8	834 909	7 6
2004	13,023	115	16,435	4,039	918	20,840	231	1,759	44,222	10,241	913	38 38	861	11
2005 2006	13,283 13,307	119 130	16,299 16,534	3,768 3,762	934 1,060	20,148 20,163	145 77	1,695 1,518	42,990 43,115	8,802 9,003	871 893	97 261	437 429	38 109 148
2007	12.699	151	17,242	3.537	968	20,336	70	1,376	43.528	11,042	893 347	217	773	148
2008 2009	13,776 14,575	171 163	16,374 16,139	3,503 3,727	888 697	20,217 19,871	81 8	1,239 1,487	42,302 41,928	9,479 9,435	346 434	214 383	1,375 1,345	127 134
2010	14,865	169 172	20,350 19,486	3,230 2,947	1,084 1,019	20,361 19,733	1	1,599	46,624 44,628	11,054 6,933	1,314 1,617	422	1,614 1,632	109 370
2011 2012	16,750 15,922	172	19,486 19,832	2,947 2,589	1,019 1,025	19,733 19,813	1	1,442 1,528	44,628	6,933 5,802	1,617	1,051 1,284	1,632	370 370
2013	16,953	159 173	19.070	3.244	1.104	20.282	Ö	1,376	44,788 45,076	6.865	1,257 1,124	1,802	1,625 1,607	370 566
2014 2015	16,253 15,683	173 161	19,161 19,374	2,933 2,477	1,053 1,248	21,133 21,122	1	1,403 1,448	15 695	10,102 10,325	1,158 1,685 856	2,737 3,180	1,812 2,025 2,048	516
2016	14,169	163	19,316	2,312	1,033	21,615	0	1,448 R 1,355	45,669 R 45,630 R 45,641 R 46,785	9,351	856	3,798	2,048	462 683
2017 2018	13,743 15,581	166 186	19,345 19,940	2,132 2,567	1,120 1,193	21,526 21,677	1	H 1,517	H 45,641 R 46 795	6,913 5,632	1,489 1,382	5,084 5,549	2,062 2,055	578 529 R 432
2019	14.156	186 181	20.445	2 951	1 161	21,717	3	H 1 287	R 47,565 R 44,600	6,952	1,340 1,390	7,211	2,091	R 432
2020 2021	12,457 12,602	181 180	19,729 R 19,523	2,693 2,576	867 1,068	19,875 21,293	3	R 1,433 R 1,710	R 44,600 R 46,175	6,189 6,881	1,390	9,115 9,592	1,911 2,059	557 R 469
2021	12,902	188	19,530	2,543	1,080	21,293	4	1,728	46,112	5,619	1,123 1,057	9,592 12,614	2,059 2,069	469
	,- ,-		-,	,	,	, =-	•	, ==	-, -=	-,	,	,	,	

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of</sup> data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Nebraska (trillion Btu)

					Fossil	fuels						Fossil fuels (as commingled)	
						Petroleum						as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	20.0	140.4	24.2	10.2	6.4	78.8	2.6	13.8	136.0	296.4	140.4	24.2	78.8
1965	20.8	164.7	21.5	13.1	7.4	82.7	2.1 5.0 3.6	13.8	140.5	326.1	164.7	21.5	82.7
1970 1971	29.7 26.3	224.1 225.5	43.4 44.3	21.4 20.8	9.8 9.9	97.3 101.0	5.0	15.4	192.2 195.5	446.1 447.3	224.1 225.5	43.4 44.3	97.3
1971	33.5	226.4	53.0	22.8	9.9	107.2	3.6 4.5	15.7 14.5	211.5	447.3 471.3	226.4	53 O	101.0 107.2
1972 1973	36.9	230.8	54.2	21.2	9.1	110.0	4.5 4.2	14.5 15.4	214.2	481.8	230.8	53.0 54.2	110.0
1974	32.8	223.3	51.5	19.9	9.9	107.2	6.6	14.9	210.1	466.1	223.3	51.5	107.2
1975 1976	32.9 53.7	217.5 197.4	49.6 60.7	21.5 24.4	9.2 9.3	108.4 113.4	6.9 9.5	12.7 12.3	208.3 229.6	458.7 480.7	217.5 197.4	49.6 60.7	108.4 113.4
1977	59.3	188.4	63.6	21.8	9.8	114.6	6.8	14.6	231.2	479.0	188 4	63.6	114.6
1978	59.8	162.7	73.6	20.3	11.0	116.0	8.0	17.7	246.4	468.9	162.7	73.6	116.0
1979	77.6 93.9	169.0	74.9 53.3	17.1	10.5	107.6	4.4	10.1	224.6	471.2 442.9	169.0	74.9	107.6
1980 1981	93.9 98.6	159.5 133.5	53.3 47.8	16.4 14.6	8.7 8.0	100.3 96.3	1.4 0.4	9.3 9.2	189.5 176.3	442.9 408.4	159.5 135.3	53.3 47.8	100.3 96.3
1982	96.7	135.6	53.9	17.2	7.9	95.9 94.1	1.2	8.5	184.7	417.0	135.6	53.9 67.3	95.9
1983	104.8	125.0	67.3	17.4	8.1	94.1	0.7	8.0	195.5	425.4	127.0		94.1
1984 1985	124.3 115.5	129.5 121.2	69.9	7.6	7.6 7.4	93.9	0.4 0.4	7.9 6.6	187.4 189.3	441.2 426.0	131.9 123.9	69.9	93.9
986	109.9	101.9	72.3 70.0	9.4 8.9	7.4 7.4	93.2 93.3	1.6	10.5	191.7	426.0 403.5	123.9	72.3 70.0	93.2 93.3
1987	116.5	105.6	73.4	11.8	7.5	94.0	1.7	12.2	200.6	422.6	107.7	73.4	94.0
1988	139.3	118.0	82.3	12.7	8.2	97.8	2.6	12.2	215.8	473.1	119.9	82.3	97.8
1989 1990	131.1 142.0	116.6 106.9	75.1 74.8	13.3 10.5	8.2 8.3	96.8 96.9	2.3 1.6	11.0 12.8	206.7 205.0	454.4 453.9	118.7 109.2	75.1 74.8	96.8 96.9
1991	152.0	112.0	75.4	11.5	6.6	93.5	1.3	12.2	200.5	464.5	114.0	75.4	96.9 93.5
1992	140.9	103.2	80.7	11.7	6.6	94.3	1.2	8.8	203.3	447.5	104.6	80.7	94.3
1993	166.2	122.2	80.7	10.8	6.4	91.3	1.7	8.2	199.1	487.5	123.0	80.7	94.1
1994 1995	160.5 179.5	124.0 133.7	84.9 85.0	11.2 11.0	7.0 5.7	92.2 98.2	1.3 0.8	9.9 9.1	206.6	491.0 522.9	124.9 133.7	84.9 85.0	94.1 100.4
1996	178.9	133.5	96.9	13.9	5.7	100.0	1.1	14.6	209.7 232.2	544.6	133.8	85.0 96.9	101.5
1997	193.3	132.0	98.1	11.4	6.1	101.5	0.7	12.7	230.5	555.8	132.1	98 1	103.2
1998 1999	204.8 198.5	131.1	108.5 103.3	12.2	6.1	103.9 104.5	0.7	12.3	243.8 246.0	579.7	131.1	108.5	105.6
2000	206.9	121.4 127.3	103.3	13.4 14.0	8.9 7.0	104.5	0.5 0.9	15.4	246.0	565.9 555.8	121.4 127.6	103.3 86.9	106.6 106.4
2001	226.7	124.1	86.9 82.7	13.2	6.3	103.8	0.8	9.2 8.7	215.5	566.2	124.1	86.9 82.7	106.1
2002	217.9	121.2	81.1	17.9	8.7	105.5	0.8	8.3	222 2	561.3	121.2	81.1	108.4
2003 2004	227.3 223.6	119.7 116.0	89.6 95.6	15.8 14.6	6.8 5.2	104.3 105.3	0.9 1.5	11.6 11.3	229.1 233.6	576.1 573.2	119.8 116.0	89.6 95.6	107.4 108.3
2005	228.7	120.1	94.8	13.8	5.3	103.1	0.9	10.9	228.8	573.2 577.6	120.1	94 8	104.6
2006	227.4	131.4	95.9	13.6	6.0	103.1	0.5	9.7	228.8	587.6	131.4	95.9	104.5
2007	216.9	153.5	99.7	12.9	5.5	101.9	0.4	8.8	229.2	599.6	153.5	<i>99.7</i>	104.6
2008 2009	234.7 249.6	172.9 165.4	94.6 92.5	13.0 13.6	5.0 4.0	98.5 96.5	0.5	7.9 9.6	219.6 216.1	627.1 631.1	172.9 165.4	94.6 93.2	103.2 101.1
2010	254.6	169.6	116.8	12.4	6.1	97.6	(s) (s) (s)	10.3	243.2	667.4	169.6	117.5	103.2
2011	285.4	173.7	110.8	11.3	5.8	94.2	(s)	9.3	231.4	690.5	173.7	112.4	99.9
2012 2013	272.6 293.0	161.8 179.6	112.8 107.0	9.9 12.5	5.8 6.3	94.7 97.1	(s) 0.0	9.9 8.8	233.0 231.6	667.4 704.2	161.8	114.4	100.3
2013	293.0 276.5	179.6	107.6	12.5	6.0	100.6	0.0 (s)	8.8 9.0	231.6	704.2 690.7	179.6 180.1	109.9 110.4	102.6 106.9
2015	266.3	170.3	108.6	9.5	7.1	99.8	0.0	9.3	234.3	670.9	170.4	111.6	106.8
2016	240.5	172.9	107.3	8.9 8.2	5.9	102.2	0.0	8.6	232.8 R 233.5	646.2 R 642.9	173.0	111.2	109.3
2017 2018	233.8 264.1	175.6 196.4	107.7 111.4	8.2	6.3 6.8	101.6	(s) (s)	R 9.7 R 8.9	n 233.5 R 220.2	n 642.9 R 600.9	176.4 197.1	111.4 114.8	108.8 109.6
2016	240.4	198.8	111.4	9.9 11.3	6.6	102.4 102.4	(S) (S)	Ra2	R 239.3 R 242.9	R 699.8 R 682.1	197.1	117.7	109.6
2020	213.7	192.7	110.2	10.3	4.9	93.8	(s)	H 9.1	n 228.3	<sup>H</sup> 634.8	192.8	113.6	100.4
2021	216.3	191.0	R 111.0	9.9	6.1	100.4	(s)	R 10.6	H 236.6	n 643.9	191.4	R 112.5	107.5
2022	223.6	198.7	111.1	9.8	6.1	100.0	(s)	10.7	236.2	658.5	199.0	112.6	107.2

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Nebraska (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 3.3	3.1	NA	NA	NA	NA	3.1	0.0	NA	NA	R 6.4	R <sub>-1.3</sub>	0.0	R 301.5
1965 1970	-0.1 0.0	R 3.8 R 4 7	1.9 1.6	NA NA	NA NA	NA NA	NA NA	1.9 1.6	0.0 0.0	NA NA	NA NA	R 5.7 R 6.2 R 6.2 R 7.3	R 8.3 R 22.8 R 29.4 R 19.0	0.0 0.0	R 340.0 R 475.1
1971	0.0	R 4.7 R 4.6	1.6	NA	NA	NA	NA	1.6	0.0	NA	NA	R 6.2	R 29.4	0.0	R 483.0 R 497.6
1972	0.0 6.5	R 4.7 R 4.7	2.6	NA NA	NA NA	NA NA	NA NA	2.6	0.0	NA NA	NA NA	7.3 R 7 3	n 19.0 R 14.5	0.0 0.0	<sup>n</sup> 497.6 R 510.2
1973 1974	44.6	R 4.7 R 4.4	2.7 2.7	NA NA	NA	NA	NA	2.7 2.7	0.0 0.0	NA NA	NA	R 7.3 R 7.1 R 6.9	R 14.5 R -12.9	0.0	R 510.2 R 504.8
1975	65.2 64.3	R 4.1 R 4.4	2.8	NA NA	NA NA	NA NA	NA NA	2.8	0.0 0.0	NA NA	NA NA	H 6.9 R 7.5	H -19.2 B 10.9	0.0 0.0	R 511.6 R 541.8 R 546.8 R 543.8 R 532.4
1976 1977	80.2	R <sub>4</sub> 2	3.1 3.4	NA	NA	NA	NA	3.1 3.4	0.0	NA	NA	R76	R -19.9	0.0	R 546.8
1978 1979	84.5 94.2	R 4.1 R 4.3	3.8	NA NA	NA NA	NA NA	NA	3.8	0.0	NA NA	NA NA	R 7.8 R 8.2	R -17.4	0.0	R 543.8
1980	94.2 63.1	R 4 6	3.9 5.9	NA NA	NA	NA NA	NA NA	3.9 5.9	0.0 0.0	NA	NA	R 10.5	R -22.3	0.0	R 494.2
1981	63.1 66.0	R 4.1	5.9 5.3	NA 0.3	NA	NA	0.0	5.9 5.6	0.0	NA	NA	R 10.5 R 9.7 R 11.2	R -19.2 R -10.8 R -19.9 R -17.4 R -41.2 R -22.3 R -18.8 R -47.9	0.0 0.0	R 494.2 R 465.4 R 477.2 R 486.0
1982 1983	96.9 66.3	R 4.1 R 4.6	6.3 5.9 7.2 7.4	0.7 1.5	NA NA	NA NA	0.0 0.0	7.1 7.4	0.0 0.0	NA NA	NA 0.0	H 12 N	R -17.6	0.0 0.0	R 477.2
1984	62.7	H 4.6	7.2	1.6	NA	NA	0.0	8.8	0.0	0.0 0.0	0.0 0.0	R 13.4 R 14.5	R -26.6	0.0	R 490.6 R 486.1
1985	43.9 81.0	R 4.9 R 5.7	7.4 6.8	1.6 1.6	NA NA	NA NA	0.6 0.7	9.6	0.0 0.0	0.0	0.0	n 14.5 R 14.8	R -31 1	0.0 0.0	<sup>n</sup> 486.1 R 468.3
1986 1987	89.7	R 5.7 R 5.3	6.8 5.7	2.0	NA	NA	0.8	9.1 8.5	0.0	0.0 0.0	0.0 0.0	R 14.8 R 13.8	R -42.4	0.0	R 483.7
1988 1989	72.4 85.5	R 4.6 R 4.0	6.1 6.4	2.2 2.7	NA NA	NA NA	0.8 0.8	9.0 9.9	0.0 0.1	0.0 (s)	0.0 0.0	R 13.6	H -34.8	0.0 0.0	H 524.3
1990	79.5	R 3.9 R 3.6	4.5 4.7	2.5	NA NA	NA NA	0.8	7.8	0.1	(s)	0.0	R 13.9 R 11.7	R -26.6 R 1.7 R -31.1 R -42.4 R -34.8 R -33.3 R -18.6 R -24.7	0.0	R 466.1 R 483.3 R 483.7 R 524.3 R 520.6 R 526.5 R 536.3
1991 1992	84.4 91.6	H 3.6 H 3.7	4.7 5.0	2.9 3.4	NA NA	NA NA	0.9 1.5	8.4 9.9	0.1 0.1	(s)	0.0 0.0	R 12.1 R 13.7	H -24.7	0.0 0.0	H 536.3
1993	71.5	R 3.4 R 4.5	4.3	3.4 2.8	NA	NA	3.3 5.0	10.4	0.1	(s) (s)	0.0	R 13.9 R 15.7	R -27.7 R -19.0 R 3.2 R -20.5 R -36.4 R -35.6 R -32.9	0.0	R 525.0 R 553.9 R 576.2
1994	66.3	R 4.5 R 4.9	4.3 4.1	2.8 1.9	NA	NA	5.0	11.0	0.2	(s)	0.0 0.0	R 15.7 R 23.5	R 3.2	0.0	R 576.2
1995 1996	78.6 99.3	H 4.9	4.2 7.8	2.2 1.5	NA NA	NA NA	12.1 12.4	18.5 21.6	0.2 0.2	(s) (s)	0.0 0.0	R 27 3	H -20.5	0.0 0.0	R 604.6 R 634.8 R 648.0 R 664.5
1997	97.3	R 5.5 R 5.7	6.3	1.7	NA	NA	16.6	24.6	0.2	(s)	0.0	H 30.6	R -35.6	(s) -0.2	R 648.0
1998	86.6 105.5	R 5.7 R 5.9	5.8 5.9	1.7	NA NA	NA NA	17.6 18.7	25.2 26.7	0.3	(S)	0.0	R 31.2 R 32.9	R -49 4	-0.2 -0.1	<sup>n</sup> 664.5 R 654.8
1999 2000	105.5 90.0	R 5.1 R 3.8	5.9 5.7	2.0 2.7	NA	NA	18.7 19.6	26.7 28.0	0.3 0.3	(s)	0.0 0.0	R 32.9 R 33.5	R -20.8	-0.1 0.0	R 654.8 R 658.5
2001 2002	91.1 105.7	H 3.8 H 3.7	7.6 8.2	2.3 2.9	(s) (s)	NA NA	21.4 21.4	31.4 32.6	0.4 0.4	(s) (s)	(s) R (s)	R 35.6 R 36.8	H -35.5 R -34.5	0.0 0.0	R 657.5 R 669.3
2002 2003 2004	83.3	R 3.3 R 3.1	8.6 8.6	3.2 3.0	(s) 0.1	NA	22.9 30.4	34.7 42.0	0.4 0.5 0.6	(s)	(s) R (s) R 0.1 R 0.1	R 38.7 R 45.9	R -18.9	(s)	R 679.3 R 692.0
2004 2005	106.8 91.9	H 3.1 H 3.0	8.6 8.0	3.0 1.5	0.1 0.2	NA NA	30.4 31.6	42.0 41.3	0.6 0.7	(s)	H 0.1	H 45.9	R -49.4 R -20.8 R -35.5 R -34.5 R -18.9 R -33.8 R -16.0	(s) (s)	H 692.0
2006	93.9	R30	6.4	1.5	0.6	NA	34.6	43.1	0.7	(s)	R 0.9	R 45.3 R 47.7		(s)	R 698.8 R 714.3
2007	115.8	R 1.2 R 1.2	6.4 7.1	1.5 2.7	0.8	NA	47.2	57.8	0.8	(s)	R 0.3 R 0.9 R 0.7 R 0.7	R 60.6 R 81.2	R -21.5 R -14.7 R -37.4 R -47.8	(s)	R 754.4 R 792.6 R 774.2 R 857.9
2008 2009	99.1 98.7	R 1.5	7.4 7.8	4.8 4.7	0.7 0.7	NA NA	65.6 64.8	78.4 78.0	0.9 1.0	(S) (S)	R 1.3 R 1.4	R 81.8	R -37.4	(s) (s)	R 774.2
2010	115.5	R 1.5 R 4.5	8.3	5.6	0.6	NA	101.1	115.6	1.2	(s)	R 1.4	R 122 7	R -47.8	0.0	R 857.9
2011 2012	72.5 60.8	R 5.5 R 4.3 R 3.8	4.3	5.7 5.6	2.0	0.0 0.0	105.5 96.2	117.4 107.6	1.2	(s) (s)	R 3.6 R 4.4 R 6.1	R 127.7 R 117.5	R -42.2 R -7.9 R -40.2	0.0 0.0	R 848.6 R 837.8 R 856.2 R 858.9 R 834.9
2013	71.7	R 3.8	3.7 4.6	5.6 5.6	2.0 3.0	0.0	96.1	109.3	1.2 1.2	(s)	R 6.1	R 117.5 R 120.5	R -40.2	0.0	R 856.2
2014 2015	105.7 108.0	R 4.0 R 5.7	4.6 4.2	6.3 7.0	2.8 2.5	0.0 0.0	103.9 104.3	117.6 118.0	1.2 1.2	(s) (s)	R 9.3	R 132.2 R 135.8	H -69.6 R -70.8	(s) 0.0	H 858.9
2016	97.8	R 5.7 R 2.9 R 5.1	4.5 3.9	7.0 7.1 7.2	3.7 3.1	0.0	109.0 110.8	124 3	1.2 1.2	Ò Í	R 10.9 R 13.0 R 17.3	R 141.4	R -69.6 R -79.8 R -39.2 R -26.1 R -36.1 R -45.7 R -30.6	(s) (s)	R 846.2 R 837.9
2017 2018	72.3 58.9	H 5.1 H 4.7	3.9	7.2 7.2	3.1 2.8	0.0 0.0	110.8 110.6	125.0 125.9	1.2	R 0.1	H 17.3 R 18.9	R 148.7 R 150.9	H -26.1 R -36.1	(s) -0.1	H 837.9 R 873.4
2019	72.6	H 4.6	5.2 5.5 R 4.2	7.3	2.3	0.0	111.0	126 1	1.2	B 0.2	R 24.6	R 156 7	R -45.7	0.0	R 873.4 R 865.7
2020	64.6 R 71.8	R 4.7 R 3.8	R 4.2 R 4.4	6.6	3.0 2.5	0.0	94.5	R 108.4 R 120.2	1.2 1.2 1.2 1.2	R 0.2 R 0.2 R 0.3 R 0.3	R 24.6 R 31.1 R 32.7	R 145.7 R 158.3	H -32.7	0.0	R 812.5 R 843.3
2021 2022	58.6	3.6	4.2	7.2 7.2	2.5 2.5	0.0 0.0	106.1 106.5	120.2	1.2 1.2	0.4	43.0	168.6	-39.3	0.0 0.0	846.4
					=:3			.=,							

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Nebraska

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	<b>s</b>			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	633	105	4,087	2,650	1,202	14,998	320	2,314	25,572	(s)					4,065			
1970	277	175	7,323	5,616	1,783	18,525	605	2,499	36,351	(s)					9,757			
1980	288	151	9,063	4,499	1,588	19,100	52	1,512	35,814	0					13,744			
1990	239	107	12,818	2,912	1,501	18,451	256	2,011	37,949	0					17,868			
2000	407	121	14,836	3,830	1,231	20,457	123	1,441	41,919	0					24,349			
2005 2006	397 425	111 122	16,255 16,494	3,768 3,762	934 1,060	20,148 20,163	126 76	1,695 1,518	42,927 43,074	0					26,976 27,276			
2006	425	140	17,188	3,762	968	20,163	76 47	1,316	43,452	0					27,276			
2008	415	164	16,302	3,503	888	20,217	81	1,239	42,229	0					28,821			
2009	392	160	16,095	3,727	697	19,871	7	1,487	41,883	ő					28,452			
2010	698	165	20,293	3,230	1,084	20,361	(s)	1,599	46,567	0					29,849			
2011	1,039	168	19,417	2,947	1,019	19,733	0	1,442	44,558	0					29,676			
2012	1,038	151	19,789	2,589	1,025	19,813	(s)	1,528	44,745	0					30,828			
2013	1,124	169	18,977	3,244	1,104	20,282	0	1,376	44,983	0					30,701			
2014	1,217	169	19,062	2,933	1,053	21,133	1	1,403	45,586	0					30,222			
2015	1,175	157	19,358	2,477	1,248	21,122	0	1,448 R 1,355	45,653 R 45,614	0					29,495			
2016 2017	1,113 1,173	158 160	19,300 19,329	2,312 2,132	1,033 1,120	21,615 21,526	0	R 1,517	R 45,624	0					30,199 30,359			
2017	1,138	177	19,905	2,567	1,120	21,677	6	R 1,403	R 46,750	0					30,939			
2019	1,007	174	20,404	2,951	1,161	21,717	3	R 1,287	R 47,523	0					30,383			
2020	870	170	19,691	2,693	867	19,875	3	R 1,433	R 44,562	0					31,172			
2021	976	169	R 19,387	2,576	1,068	21,293	4	R 1,710	R 46,039	0					32,341			
2022	972	176	19,448	2,543	1,080	21,228	4	1,728	46,030	0					33,844			
									Trillion	Btu								
1960	13.7	108.4	23.8	10.2	6.4	78.8	2.0	13.8	135.0	(s)	2.6		NA	NA	13.9	273.5	R 28.0	R 301.5
1970	5.7	176.1	42.7	21.4	9.8	97.3	3.8	15.4	190.3	(s)	1.6		NA	NA	33.3		R 68.2	R 475.1
1980	5.5	148.2	52.8	16.4	8.7	100.3	0.3	9.3	187.9	0.0	5.9		NA	NA	46.9		R 99.8	R 494.2
1990	4.6	105.6	74.7	10.5	8.3	96.9	1.6	12.8	204.8	0.0	4.5		0.1	(s)	61.0		R 145.0	<sup>R</sup> 526.5 <sup>R</sup> 658.5
2000 2005	8.4 7.9	122.0 112.1	86.3 94.6	14.0 13.8	7.0 5.3	106.4 104.6	0.8 0.8	9.2 10.9	223.7 229.9	0.0	5.6 7.6		0.3 0.7	(s) (s)	83.1 92.0	462.3 482.0	R 196.2 R 216.8	R 698.8
2006	8.3	123.6	95.7	13.6	6.0	104.5	0.5	9.7	230.0	0.0	5.8		0.7	(s)	93.1	496.8	R 217.6	R 714.3
2007	8.2	142.4	99.4	12.9	5.5	104.6	0.3	8.8	231.4	0.0	6.5			(s)	96.4	533.8	R 220.7	R 754.4
2008	7.8	165.6	94.2	13.0	5.0	103.2	0.5	7.9	223.9	0.0	6.8		0.9	(s)	98.3		R 223.0	R 792.6
2009	7.3	162.1	93.0	13.6	4.0	101.1	(s)	9.6	221.2	0.0	7.1	64.8	1.0	(s)	97.1	560.7	R 213.6	R 774.2
2010	12.7	165.7	117.2	12.4	6.1	103.2	(s)	10.3	249.2	0.0	7.5		1.2	(s)	101.8		R <sub>218.7</sub>	R 858.0
2011	19.0	169.4	112.0	11.3	5.8	99.9	0.0	9.3	238.3	0.0	3.6		1.2	(s)	101.3		R 209.9	R 848.2
2012	18.9	153.9	114.1	9.9	5.8	100.3	(s)	9.9	240.0	0.0	3.2			(s)	105.2		R 218.8	R 837.4
2013	20.3	174.9	109.4	12.5	6.3	102.6	0.0	8.8	239.5	0.0	3.9		1.2	(s)	104.8		R 215.3 R 206.3	R 856.0 R 858.9
2014 2015	22.0 21.2	175.8 165.9	109.9 111.5	11.3 9.5	6.0 7.1	106.9 106.8	(s) 0.0	9.0 9.3	243.0 244.2	0.0	4.0 3.4		1.2 1.2	(s)	103.1 100.6	652.6 640.8	R 194.6	R 835.4
2015	21.2	166.8	111.5	9.5 8.9	7.1 5.9	106.8	0.0	9.3 8.6	244.2	0.0	3.4		1.2	(s) R (s)	100.6	640.8	R 199.0	R 846.4
2017	21.0	169.9	111.3	8.2	6.3	108.8	(s)	R 9.7	R 244.3	0.0	3.0		1.2	R (s)	103.6	R 653.0	R 185.4	R 838 5
2018	20.3	187.4	114.6	9.9	6.8	109.6	(s)	R 8.9	R 249.8	0.0	4.3		1.2	0.1	105.6	R 678.7	R 195.4	R 874.0
2019	17.5	186.0	117.5	11.3	6.6	109.7	(s)	R 8.2	R 253.3	0.0	4.7	111.0	1.2	R 0.1	103.7	R 677.4	<sup>R</sup> 189.4	H 866.8
2020	15.2	181.2	113.3	10.3	4.9	100.4	(s)	<sup>R</sup> 9.1	R 238.2	0.0	R 3.4	94.5	1.2	R 0.1	106.4	R 640.0	R 172.8	R 812.9
2021	17.0	179.4	R 111.7	9.9	6.1	107.5	(s)	<sup>R</sup> 10.6	R 245.9	0.0	R 3.5		1.2	<sup>R</sup> 0.1	110.3		<sup>R</sup> 180.5	<sup>R</sup> 843.7
2022	17.1	185.6	112.1	9.8	6.1	107.2	(s)	10.7	245.9	0.0	3.3	106.5	1.2	0.2	115.5	674.9	171.9	846.8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Nebraska

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	129	39	140	1.955	337	2.431				1,907			
1960 1965 1970	129 35 20	39 48 58 54	111 196	1,955 2,779 4,246	337 453 379	2,431 3,343 4,821 3,976				2,816 4,107			
1970	20	58	196	4,246	379	4,821				4,107			
1975	3	54	173	3 431	372	3,976				4 693			
1980 1985 1990	4	49 47	360	1,535 1,090	10 40	1,904 1,483 1,268				5,521 6,195			
1985	3	47	353 106	1,090	40	1,483				6,800			
1995	1		88	1,281	4	1,200				7 597			
1995 2000	ó	43	110	1 904	8	1,372 2,022				7,597 8,346			
2005	(s)	38	88	1.848	7	1.944				9.309			
2006	(s)	36	102	1,572	2	1,676				9,294			
2005 2006 2007	`1	45 43 38 36 39 42 40 40	360 353 196 88 110 88 102 53 55 36 28 24 18 20 18 14 13 15	1,848 1,572 1,830	6	1,944 1,676 1,889				9,309 9,294 9,748			
2008 2009 2010	0	42	55	2 441	2	2,498 2,198 2,210				9,756 9,627 10,107			
2009	0	40	36	2,160 2,179	3	2,198				9,627			
2010	0	40 40	28	2,179	3	2,210				10,107			
2011	0	31	24 10	2,037	<u> </u>	2,002				9,947			
2013	0	41	20	2,037 1,513 1,860	1	2,062 1,531 1,880				9,947 9,680 10,062			
2014	0		18	1 817	i	1,836				10,002			
2014 2015	ŏ	42 35 33 34 42 42	14	1,817 1,629	(s)	1,836 1,644 1,454				10,028 9,532 9,738			
2016	0	33	13	1,439 1,190 1,703 2,035	ĺ	1,454				9,738			
2017 2018	0	34	15	1,190	(s)	1,205 1,717				9,668 10,412 10,308			
2018	0	42	13	1,703	1	1,717				10,412			
2019	0	42	12	2,035		2,048				10,308			
2020 2021	0	37	11	1,684 1,612	(s) 1	1,696				10,515 10,492			
2021	0	37 36 39	16 17	1,514	i	1,696 1,629 1,532				10,492			
				.,		1,002	Trillion Btu			.0,00			
												D	D
1960 1965 1970	2.7 0.7	40.9 47.2 58.8	0.8 0.6	7.5 10.7	1.9 2.6	10.2 13.9 19.6	2.2	NA	NA	6.5	62.5 72.8	n 13.1	75.6 B 04.7
1965	0.7	47.2 59.9	1.1	16.3	2.6	13.9	1.4 1.0	NA NA	NA NA	9.6 14.0	72.8 93.8	1 18.9 R 28.7	R 122.5
1975	(s)	53.6	1.0	13.2	2.1	16.3	1.2	NA	NA	16.0	87.2	R 13.1 R 18.9 R 28.7 R 32.7 R 40.1 R 43.0 R 55.2 R 61.1 R 67.3 R 74.8 R 74.1 R 75.5 R 72.3	R 119 9
1975 1980	0.1	53.6 47.9	2.1	13.2 5.9 4.2	0.1	16.3 8.0	5.7	NA	NA	18.8	87.2 80.6	R 40.1	R 120.7
1985 1990 1995	0.1	45.8	2.1	4.2	0.2	6.5	5.7 7.2 4.0 3.5 2.8 2.3 2.0 2.2 2.5	NA	NA	21.1 23.2 25.9	79.7 72.5 79.1	R 43.0	R 122.7
1990	(s) (s)	40.8	1.1 0.5	4.1 4.9	(s)	5.3 5.5	4.0	(s) 0.1	(s) (s)	23.2	72.5	R 55.2	R 127.6
1995	(s)	44.1	0.5	4.9	(s)	5.5	3.5	0.1	(s)	25.9	79.1	H 61.1	H 140.2
2000 2005 2006 2007 2008	0.0	42.7 38.3 36.3 39.3 42.8	0.6 0.5 0.6 0.3 0.3 0.2	7.3 7.1	(s)	8.0 7.7	2.8	0.1	(s)	28.5 31.8	81.9 80.2	67.3	n 149.2
2005	(s)	38.3	0.5	7.1 6.0	(S)	6.6	2.3	0.1 0.1	(S) (S)	31.8	76.9	11 74.8 B 74.4	1 155.0 B 151.0
2000	(s) (s)	30.3	0.b	0.0 7.0	(8)	0.0 7.4	2.0	0.1	(S)	31.7 33.3 33.3	82.4	R 76.1	R 158.5
2008	0.0	42.8	0.3	7.0 9.4	(s)	7.4 9.7	2.5	0.2 0.2	(s)	33.3	88.6	R 75.5	R 164 1
2009	0.0	40.6	0.2	8.3	(s)	8.5	2.6	0.3	(s)	32.8	84 9	R 72.3	R 157.1
2010 2011	0.0 0.0	40.3 40.2 31.9	0.2	8.4	(s)	8.5	2.8	0.3	(s)	34.5	86.4 85.6 73.6	R 74.0	R 160.5
2011	0.0	40.2	0.1	7.8 5.8	(s)	8.0	2.7	0.8	(s)	33.9	85.6	R 70.3	R 156.0
2012	0.0	31.9	0.1	5.8	(s)	8.5 8.5 8.0 5.9 7.3	2.6 2.8 2.7 2.3 2.9 3.0	0.5	(s)	32.8 34.5 33.9 33.0	73.6	H 68.7	H 142.3
2013 2014	0.0	42.7 43.9	0.1	7.1	(s)	7.3	2.9	0.5	(s)	34.3 34.2 32.5 33.2 33.0	87.8	n 70.6	n 158.3
2014	0.0 0.0	43.9	0.1 0.1	7.0	(S)	/ 1	3.0	0.5	(s)	34.2	88.6 78.4	11 68.5 R 62.0	'' 15/.1 B 441.2
2015 2016 2017	0.0	36.6 35.0 36.1	0.1	6.3 5.5 4.6	(8)	6.3 5.6 4.7	2.4 2.2 1.8	0.5 0.5 0.5	(s)	ა∠.5 ვვე	76.4 76.6	R 64.2	R 141.3
2017	0.0 0.0	36.1	0.1	4.6	(8)	4.7	1.2	0.5	R (s)	33.0	76.6 76.0	R 59 1	R 135 0
2018	0.0	44.9	0.1	6.5	(s)	6.6	2.8	0.5	0.1	35.5	90 3	R 65.7	R 156.0
2018 2019	0.0	44.5	0.1	7.8	(s)	6.6 7.9	_ 3.1	0.5	0.1	35.5 35.2	_ 91.2	R 64.3	R 155.5
2020	0.0	39.5 38.7	0.1	6.5	(s)	6.5	R 1.7	0.5 0.5	<sub>D</sub> 0.1	35.9	R 84.2	R 70.3 R 68.7 R 70.6 R 68.5 R 62.9 R 64.2 R 59.1 R 65.7 R 64.3 R 58.3	R 142.5
2020 2021 2022	0.0 0.0	38.7 41.6	0.1 0.1	6.5 6.2 5.8	(s) (s)	6.5 6.3 5.9	3.1 R 1.7 R 1.7 I.7	0.5 0.5	R 0.1 R 0.1 0.1	35.9 35.8 37.5	91.2 R 84.2 R 83.0 87.2	<sup>H</sup> 58.6 55.8	R 75.6 R 911.7 R 122.5 R 119.9 R 120.7 R 122.7 R 127.6 R 140.2 R 155.0 R 155.0 R 156.0 R 158.5 R 164.1 R 156.1 R 141.3 R 158.1 R 141.3 R 141.3 R 141.3 R 142.5 R 142.5 R 142.5 R 143.0

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Nebraska

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total d	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat	lion tthours	End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	89	22	140	152	65	84 95	43	484	NA			NA	1,269			
1965	26	26	112	216	87		84	593	NA			NA	2,025			
1970 1975	16 6	47 43	197 174	329 266	73 71	110 120	241 159	950 790	NA NA			NA NA	3,505 3,660			
1980	15	43	181	119	21	149	159 23	493	NA			NA	4,068			
1985 1990	9	39 36	831 287	85	12	158 155	0 20	1,085 568	NA 0			NA 0	5,714			
1990	8	40	267 162	83 99	23 4	21	20 1	287	0			0	6,451 7,494			
2000	Ö	29	198	148	1	279	8	634	Ō			0	8,727			
2005 2006	3 5	27 28	206 189	152 67	4	26 110	23	411	0			0	8,848 9,006	 	 	
2006	5 5	30	189	131	1	115	41 0	410 437	0			0	9,396			
2008	Ö	35	295	131	1	106	42	575	Ö			Ö	9,441			
2009 2010	0	32	227 246	111 180	1	92 22 79 75	7	438 449	0			0 (s)	9,314 9,532			
2010	0	32 32 27	198	141	1	79	(s)	418	0			(S)	9,532			
2012	Ö	27	206	139	(s)	75	(s) 0	420	Ö			(s)	9,233			
2013	0	32 32	325 328	227 191	(s)	59 65	0	611	0			(s)	9,387			
2014 2015	0	32 29	325 325	148	(s) (s)	389	0	586 862	0			(s) (s)	9,526 9,308			
2016	ŏ	29 27	336	111	(s)	386 359	ŏ	833	ŏ			1	9,307			
2017	0	29	316	119	(s)	359	1	796	0			2	9,293			
2018 2019	0	35 35	393 424	225 257	(s) (s)	364 366	6	988 1,051	0			4 5	9,553 9,457			
2020	ŏ	32	376	450	1	369	3	1.199	ŏ			8	9,090			
2021 2022	0	32 33	293 304	355 368	(s) (s)	375 404	4	1,028 1,080	0			8	9,260			
2022	0	33	304	368	(S)	404	4		lion Btu			9	9,619			
															D	
1960	1.9 0.5	22.7 25.3	0.8 0.7	0.6 0.8	0.4 0.5	0.4 0.5	0.3 0.5 1.5	2.5 3.0	NA NA	(s)	NA NA	NA NA	4.3 6.9	31.4 35.8	R 8.7	R 40.2
1965 1970	0.3	47.2	1.1	1.3	0.5	0.6	1.5	4.9	NA NA	(s)	NA NA	NA NA	12.0	64.4	R 13.6 R 24.5 R 25.5	R 49.3 R 88.9
1975	0.1	43.0	1.0	1.0	0.4	0.6	1.0	4.1	NA	(s)	NA	NA	12.5	59.7	R 25.5	H 85.2
1980 1985	0.3 0.2	42.5 38.7	1.1 4.8	0.5 0.3	0.1 0.1	0.8 0.8	0.1 0.0	2.6 6.1	NA NA	0.1 0.2	NA NA	NA NA	13.9 19.5	59.3 63.8	R 29.5	R 88.9 R 103.4
1990	0.1	35.9	1.7	0.3	0.1	0.8	0.0	3.1	0.0	0.4		0.0	22.0	60.7	R 39.6 R 52.3 R 60.3 R 70.3	R 113.1
1995	0.2	39.2	0.9	0.4	(s)	0.1	(s)	1.5	0.0	0.5	(s) 0.1	0.0	22.0 25.6	67.0	R 60.3	R 113.1 R 127.3
2000 2005	0.0 0.1	29.0 27.7	1.2 1.2	0.6 0.6	(s) (s)	1.5 0.1	0.1 0.1	3.2 2.1	0.0 0.0	0.6 0.5	0.2 0.5	0.0 0.0	29.8 30.2	62.9 61.1	R 71.1	R 133.2
2005	0.1	28.4	1.1	0.3	(s)	0.6	0.3	2.2	0.0	0.5	0.6	0.0	30.7	62.5	H 71 Ω	R 132.2 R 134.4 R 139.5 R 144.7
2007	0.1	30.6	1.1	0.5	(s)	0.6	0.0	2.2	0.0	0.5 0.5 0.5	0.6	0.0	32.1	66.1	R 73.4 R 73.1 R 69.9	R 139.5
2008 2009	0.0 0.0	35.2 32.2	1.7 1.3	0.5 0.4	(s) (s)	0.5 0.5	0.3	3.0 2.3	0.0 0.0	0.5	0.7 0.8	0.0 0.0	32.2 31.8	71.6 67.4	<sup>n</sup> 73.1	<sup>P</sup> 144.7 R 137.4
2010	0.0	32.1	1.4	0.4	(s)	0.5	(s) (s)	2.3	0.0	0.5	0.8	(s)	32.5	68.2	H 69 8	R 138.0
2011	0.0	32.5	1.1	0.5	(s)	0.4	0.0	2.1	0.0	0.5 0.5	0.4	(s)	31.2	66.6	R 64 6	R 131 2
2012 2013	0.0 0.0	27.0 33.4	1.2 1.9	0.5 0.9	(s)	0.4	(s) 0.0	2.1 3.0	0.0 0.0	0.5	0.7 0.7	(s) (s)	31.5	61.8 69.7	n 65 5	R 127.3
2013	0.0	33.4	1.9	0.9	(s) (s)	0.3 0.3		3.0	0.0	0.5 0.6	0.7	(S)	32.0 32.5	70.4	R 65.8 R 65.0	R 135.5 R 135.5 R 129.9 R 127.3
2015	0.0	31.1	1.9	0.6	(s)	2.0	(s) 0.0	4.4	0.0	0.5	0.7	(s)	31.8	68.5	H 61.4	R 129.9
2016	0.0	28.6	1.9	0.4	(s)	2.0	0.0	4.3	0.0	0.6	0.7	(s)	31.8	65.9	R 61.3 R 56.8	H 127.3
2017 2018	0.0 0.0	30.8 37.5	1.8 2.3	0.5 0.9	(s) (s)	1.8 1.8	(s) (s)	4.1 5.0	0.0 0.0	0.5 0.6	0.7 0.7	(\$) (s)	31.7 32.6	67.7 _ 76.3	H 60.3	R 124.5 R 136.6
2019	0.0	37.9	2.4 2.2	1.0	(s)	1.8	(s)	5.3	0.0	0.6	0.7	_ (s)	32.3	R 76.7	R 58.9 R 50.4	R 135.7 R 122.2
2020 2021	0.0	33.7 33.8	2.2 1.7	1.7	(s)	1.9 1.9	(s) (s)	5.8 5.0	0.0	0.5	0.7	R (s) R (s)	31.0	71.8	<sup>R</sup> 50.4 R 51.7	H 122.2
2021	0.0 0.0	33.8	1.7	1.4 1.4	(s) (s)	2.0	(S) (S)	5.0 5.2	0.0 0.0	0.6 0.5	0.7 0.7	(S)	31.6 32.8	71.7 73.9	48.9	R 123.4 122.7
	0.0	0	5		(0)	,	(0)	U.E	0.5	0.0	<b>3.</b> 7	(3)	02.0		.0.0	,

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Nebraska

					Petro	eum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		illion :Wh	End use <sup>f,k</sup>	energy losses	Total <sup>f,k</sup>
1960	408	37	2.405	441	2 1/16	18	1 21/	6 224	(e)				NA	880			
1960 1965 1970	408 349	37 48	2,405 1,956	441 314	2,146 1,790	18 32	1,214 1,086	6,224 5,177	(s) (s)	==	==	==	NA NA	889 1,182		==	==
1970	240	56	3,271	823	1,319	139	1,530	7.082	(s)				NA	2 1/15			
1975 1980	308	74 52 33 26 45	3,234	1,811	1,644	137 29	1,208	8,035 8,506	Ó				NA				
1980	269 261	52	3,411 4,457	2,675	1,471 1,392	62 62	920 608	8,506	0				NA NA	4,155			
1985 1990	235	26	4,457	1,359 1,700	950	236	1,545	7,877 9,241 8,253 8,052	0				1NA 0	4 618		==	
1995	235 339 407	45	4,748	1,617	759	236 120	1,009	8.253	ŏ				ŏ	5,802			
2000	407		4,545	1,753	634	115	1.005	8,052	0				0	7.276			
2005 2006	393 420	41	5,222	1,745	1,250	103 35	1,296	9,616	0				0	8,819			
2006	420	54	5,168	2,089	1,279	35	1,135	9,705	0				0				
2007 2008 2009	427 415	66 77	6,113 5.843	1,537 902	719 460	47 38	981 883	9,397 8,127	Ü				Ü	9,104 9,624			
2008	392	81	4,493	1,434	485		1,163	7,575	0				0				
2010	698	86	4,195	866	638	(s) 0	1,300	7 000	ő				(s)	10,210			
2011	1,039 1,038 1,124	86 86 88	4,130	763 933	649	0	1,171	6,714 8,292 7,671	0				(s)	10,590 11,915			
2012	1,038	86	5,507	933	572	0	1,281	8,292	0				(s)	11,915			
2013	1,124	88	4,840	1,149	550	0	1,132	7,671	0				(s)	11,251			
2014 2015	1,217 1,175	87 86	4,503 4,577	915 693	472 704	(s)	1,144 _ 1,171	7,071 7,035 7,145 R 7,380 R 7,602 R 6,859 R 6,911 R 7,291	0				(S)	10,668 10,655			
2016	1,173	91	4,891	752	647	0	R 1 089	R 7 380	0				(5)	11,154			
2017	1,173	90	4,862	817	651	ŏ	R 1,273	R 7,602	ŏ				(s)	11,398			
2018	1,138	90	4,430	605	660	0	R 1,089 R 1,273 R 1,163	R 6,859	0				`í	10,974			
2019	1,007	90	4,616	613	630	0	R 1,051 R 1,216 R 1,216	R 6,911	0				1	10,619			
2020 2021	870	95	4,882	554 523	638 627	0	<sup>R</sup> 1,216	<sup>n</sup> 7,291 R 6,997	0				1	11,566 12,588			
2021	976 972	90 95 96 98	4,632 4,682	652	662	0	1,216	7,212	0				3	12,588			
2022	372	30	4,002	032	002	0	1,210	7,212	Trillion Bt				3	10,242			
																D	D
1960 1965	9.0	38.3	14.0	1.7 1.2	11.3 9.4	0.1 0.2	7.7 6.9	34.8 29.0	(s) (s) (s) 0.0 0.0	0.4	NA	NA	NA	3.0	85.4	R 6.1 R 7.9	R 91.5 R 96.8 R 124.4 R 156.6 R 143.6
1965	7.6 4.9	47.7 56.0	11.4 19.1	3.0	6.9	0.2	6.9	29.0	(S)	0.5	NA NA	NA NA	NA NA		88.9 109.4	R 15.0	H 124.4
1970	4.9 5.9	73.5	18.8	6.4		0.9	9.9 7.7	39.7 42.4	(8)	0.5 1.5	NA NA	NA NA	NA NA		134.3	R 22 3	R 156 6
1970 1975 1980	5.9 5.2	56.9 73.5 50.9	19.9	6.4 9.4	8.6 7.7	0.2	5.9	39.7 42.4 43.2	0.0	(s)	NA	ŇA	NA	14.2	113.4	R 15.0 R 22.3 R 30.2	R 143.6
1985 1990	4.9	32.6	26.0	4.6	7.3	0.4 1.5	3.9	42.2 50.5	0.0	(s)	0.6	NA	NA	12.9	92.7 96.5	R 26.3 R 37.5 R 46.7	R 143.6 R 119.0 R 133.9 R 173.6 R 203.6 R 238.8 R 254.0 R 279.3 R 307.1 R 303.1 R 353.0
1990	4.5	25.4	28.0	5.9	5.0	1.5	10.1	50.5	0.0	0.0	0.8	0.0	0.0		96.5	H 37.5	H 133.9
1995	6.6	43.9	27.6	5.6	4.0	0.8	6.6	44.6	0.0	(s) 2.1 4.8 3.4	12.1	0.0	0.0	19.8	126.9	h 46.7	H 173.6
2000	8.4 7.8	47.1 41.6	26.4 30.4	6.0 6.0	3.3 6.5	0.7 0.6	6.b	43.1 52.0	0.0 0.0	2.1	19.6 31.6	0.0	0.0	24.8	144.9 167.9	11 58.6 R 70 q	R 238 8
2000 2005 2006	7.8 8.2	54.2	30.0	7.1	6.6	0.0	6.6 8.5 7.5 6.5 5.8 7.7	51.4	0.0	3.4	34.6	0.0	0.0	30.6	182.4	R 58.6 R 70.9 R 71.6	R 254 0
2007	8.1	67.0	35.4 33.8	5.2	3.7	0.3	6.5	51.0	0.0	3.8	47.2	0.0	0.0	31.1 32.8	208.2	R 71.1 R 74.5 R 71.4 R 74.8	R 279.3
2007 2008	7.8	67.0 77.5	33.8	5.2 3.0	2.3	0.3 0.2	5.8	51.0 45.2	0.0	3.7	47.2 65.6	0.0	0.0	32.8	208.2 232.7	R 74.5	R 307.1
2009	7.3	82.2	26.0	4.8	2.5	(s) 0.0	7.7	40.8	0.0	4.1	64.8	0.0	0.0	32.5	231.7	R 71.4	R 303.1
2010	12.7	85.9	24.2	3.3 2.9	2.5 3.2 3.3	0.0	8.5	39.3 37.7	0.0	4.1 4.3 0.4	101.1 105.5	0.0	(s)	34.8	278.2	H 74.8	H 353.0
2011	19.0	87.4	23.8	3.6	3.3 2.9	0.0	7.7	37.7	0.0	0.4	105.5	0.0 0.0	(s)	36.1 40.7	286.2 R 290.0	R 74.9 R 84.5	R 361.1 R 374.6
2012	18.9	87.2 91.5	31.8	3.6	2.8	0.0 0.0	8.4	46.6	0.0 0.0	0.4	96.2	0.0	(s) (s)	40.7	280.0	R 78.9	R 368 1
2013 2014	20.3 22.0	90.6	27.9 25.9	4.4 3.5	2.4	(2)	7.4 7.4	42.4 39.3	0.0	0.5 0.5 0.5 0.8	96.1 103.9	0.0	(8)	36.4	289.2 292.5	R 72 g	R 368.1 R 365.3 R 363.4 R 379.2 R 378.2 R 371.9
2015	21.2	90.6	26.4 28.2	2.7	3.6	(s) 0.0	7.6	40.2	0.0	0.5	104.3	0.0	(s)	36.4	293 1	R 70.3 R 73.5 R 69.6	R 363.4
2016 2017	20.0	96.5	28.2	2.7 2.9 3.1	3.3	0.0	7.1 R 8.2	41.4 R 42.6	0.0	0.8	109.0	0.0	(s)	36.4 38.1 38.9	305.7 R 308.6	R 73.5	R 379.2
2017	21.0	95.1	28.0	3.1	3.3	0.0	H 8.2	H 42.6	0.0	0.6	110.8	0.0	(s)	38.9	H 308.6	H 69.6	H 378.2
2018	20.3	95.0	25.5	2.3	3.3	0.0	R 7.5 R 6.8	R 38.7	0.0	0.9 1.0	110.6	0.0	(s)	37.4	R 302.6	R 69.3 R 66.2	7 371.9 B 200.0
2019	17.5	96.0 101.3	26.6 28.1	2.4	3.2	0.0 0.0	11 6.8 R 7 0	R 41.2	0.0	1.0	111.0 94.5	0.0 0.0	(s)	36.2	R 202 9	R 64.1	R 257 0
2019 2020 2021	15.2 17.0	102.5	26.7	2.1 2.0	3.2 3.2	0.0	R 7.9 R 7.9	R 38.9 R 41.3 R 39.7	0.0	1.1	106.1	0.0	(8)	37.4 36.2 39.5 43.0	R 300.6 R 292.8 R 309.2	R 64.1 R 70.3	R 366.8 R 357.0 R 379.5
2022	17.1	103.8	27.0	2.5	3.3	0.0	7.8	40.7	0.0		106.5	0.0	(s)	45.2	314.2	67.3	381.4

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Nebraska

						Po	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
960	7	6	371	1,402	103	1,202 1,371	328 295	12,768	258 109	16,432 17,583	0			_
965		9	410	1.439	99	1,371	295	13,861	109	17,583	0			-
970	(s)	13	199	3,658	217	1,783	319	17,096	225 138	23,497	0			-
975 980	(s)	10	141 213	4,618 5,112	231 171	1,679 1,588	299 348	18,871 17,480	138	25,976 24,911	0			=
985	0	6	96	6.709	57	1.357	317	16,187	0	24,722	0			_
90	Ö	4	83 77	6,709 7,524	61 23	1,501	356	17,346	Ö	26,871	Ö			-
95	0	3	77	9,540	23	1,001	340	18,521	0	29,501	0			-
00	0	3	64 82	9,983	26 23 34 38	1,231 934	363 306	19,543	0	31,210	0			-
05	0	4 5	82	10,739	23		306	18,872	0	30,957	0			-
06 107	0	5 5	80 79	11,036 10,834	34	1,060 968	298 308	18,774 19,501	0	31,283 31,729	0			
08	0	10	79 66 63	10,004	29	888	286	19,652	0	31,029	0			_
09	Ŏ	7	63	10,108 11,340	29 22	888 697	286 257	19,293	Ŏ	31,029 31,672	Ŏ			-
10	0	7	49 46 44	15,824 15,066	5	1.084	245	19,701	0	36.909	0			-
11	0	9	46	15,066	5	1,019	224 203	19,005	0	35,365	0			-
12	0	8	44	14,059	5	1,025	203	19,166	0	34,502	0			
13 14	0	7	35 38	13,792 14,214	8	1,104 1,053	209 219	19,673 20,595	0	34,821 36,129	0			
15	0	7	38	14,442	8	1,248	219	20,028	0	36,002	0			
16	0	6	38	14.059	10	1,033	237 R 226 R 207 R 201 R 197	20,581	0	R 35 948	0			
17	Ŏ	7	38 36	14,059 14,137	5	1,120	R 207	20,581 20,516	Ŏ	R 36.021	Ŏ			
18	0	9	38	15.069	33 46	1.193	R 201	20.652	0	H 37.187	0			
19	0	7	37	15,352	46	1,161	H 197	20,721	0	R 37,514	0			
20 21	0	6	37 36 35	14,421 R 14,446	5 86	867 1,068	R 181 R 189	18,868 20,292	0	R 34,377 R 36,385	0			:
)22	0	5	36	14,445	10	1,080	200	20,161	0	36,207	0			-
							Tri	Ilion Btu						
960	0.2	6.5	1.9	8.2	0.4	6.4	2.0	67.1	1.6	87.6	0.0	94.2	0.0	94
965	(s)	8.6	2.1	8.4 21.3	0.4	7.4	1.8 1.9	72.8	0.7	93.5 126.1	0.0	102.1 139.3	0.0	102
70 75	(s)	13.2	1.0	21.3	0.8	7.4 9.8 9.2	1.9	89.8	1.4	126.1	0.0	139.3	0.0	139
75 80	(s) 0.0	10.4	0.7 1.1	26.9 29.8	0.9 0.7	9.2	1.8	99.1 91.8	0.9 0.0	139.5 134.1	0.0 0.0	149.9 141.0	0.0 0.0	149 14
35	0.0	6.9 5.5	0.5	39.1	0.7	8.7 7.4	2.1 1.9	85.0	0.0	134.2	0.0	141.1	0.0	14
90	0.0	3.5	0.4	43.8	0.2	8.3	2.2	91.1	0.0	146.0	0.0	151.8	0.0	15
95	0.0 0.0	3.5 3.4	0.4	55.5	0.1	8.3 5.7	2.1	96.4	0.0	160.1	0.0	163.5	0.0	16
00	0.0	3.2	0.3	58.1	0.1	7.0	2.2	101.6	0.0	169.3	0.0	172.5	0.0	17
05 06	0.0	4.5	0.4	62.5	0.1	5.3	1.9	98.0	0.0	168.1	0.0	172.8	0.0	17
)6 )7	0.0 0.0	4.6	0.4 0.4	64.0 62.7	0.1 0.1	6.0	1.8 1.9	97.3 100.3	0.0 0.0	169.7 170.8	0.0 0.0	174.9 177.1	0.0 0.0	17- 17
08	0.0	5.5 10.1	0.4	58.4	0.1	5.5 5.0	1.7	100.3	0.0	166.0	0.0	177.1	0.0	17
)9	0.0	7.1	0.3	65.5	0.1	4.0	1.6	98.2	0.0	169.6	0.0	176.7	0.0	17
09 10	0.0 0.0	7.1 7.4	0.3 0.2	65.5 91.4	(s)	4.0 6.1	1.6 1.5	98.2 99.8	0.0 0.0	169.6 199.1	0.0	206.5	0.0	17 20
11	0.0	9.4	0.2	86.9	(s)	5.8	1.4	96.2	0.0	190.5	0.0	200.0	0.0	20
2	0.0	7.8 7.2	0.2 0.2	81.1	(s) (s)	5.8 6.3	1.2 1.3	97.0 99.5	0.0	185.4 186.8	0.0	193.2	0.0	19
3	0.0	7.2	0.2	79.5	(s)	6.3	1.3	99.5	0.0	186.8	0.0	194.0	0.0	19
4 5	0.0 0.0	7.5 7.5 6.8 7.9	0.2 0.2	81.9 83.2	(s) (s)	6.0 7.1	1.3 1.4	104.2 101.3	0.0 0.0	193.6 193.2	0.0 0.0	201.1 200.8	0.0 0.0	20 20
16	0.0	7.5 6.8	0.2	80.9	(S)	5.1	1.4	104.0	0.0	192.4	0.0	199.2	0.0	19
17	0.0	7.9	0.2	81.4	(s)	5.9 6.3	1.4 R <sub>1.3</sub>	103.7	0.0	192.9	0.0	200.7	0.0	20
18	0.0	10.0	0.2	86.8	(s) 0.1	6.8	1.2	104.4	0.0	199.5	0.0	209.5	0.0	20
19	0.0	7.6	0.2	88.4	0.2	6.6	1.2	104.7	0.0	201.2	0.0	208.8	0.0	20
20	0.0	6.7	0.2	83.0	(s) 0.3	4.9	1.1	95.3	0.0	184.5 R 194.9	0.0	191.3	0.0	19
21	0.0 0.0	4.4	0.2 0.2	R 83.3	0.3	6.1	1.1	102.5 101.8	0.0 0.0	H 194.9	0.0	R 199.3	0.0 0.0	R 19:
22	0.0	5.6	0.2	83.3	(s)	6.1	1.2	101.8	0.0	194.1	0.0	199.7	0.0	199

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Nebraska

				Petro	leum		Nuclear		Biomass				Electricity	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	net imports h	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	256 486	31	64 71	0	96 107	160	0	959		0	NA	NA	0	
1965	486	36	71	0	107	178	-5 0	1,115		0	NA	NA	0	
1970 1975	1,006 1,278	48 38	126 308	0	188 658	314 967	5,916	1,370 1,213		0	NA NA	NA NA	0	
1975 1980	4,702	38 12	308 86	Ö	658 176	967 262	5,783	1,336		Ŏ	NA	NA	Ö	
1985	6,380	1	62 31	0	0	62	4,134	1,441		0	0	0	0	
1990 1995	8,027 10,048	4 3	61	0	0	31 61	7,511 7,485	1,140 1,426		0	0	0	0	
2000 2005	11,503	6	100	Ö	19	119 63	8,629 8,802	1,501		Ō	Ö	Ō	Ö	
2005	12,886	8 8	44	0	19	63	8,802	871		0	0	97	-4	
2006 2007	12,881 12,267	8 11	40 54 72	0	2 23	41 76	9,003 11,042	893 347		0	0	261 217	-1 9	
2008	13.360	7	72	Ö	1	73	9,479	346		Ö	Ö	214	(s)	
2009 2010	14,183 14,167	3	44 57	0	1	73 45 57	9,435 11,054	434 1,314		0	0	383 422	(s)	
2010	15,711	4	69	0	(s) 1	70	6,933	1,617		0	0	1,051	0	
2012	14,884	8	69 42	Ö	i	43	5,802	1,257		Ŏ	ő	1,284	Ö	
2013	15,829	5	94 99	0	0	94 99	6,865	1,124		0	0	1,802	0	
2014 2015	15,036 14,508	4	99 16	0	0	99 16	10,102 10,325	1,158 1,685		0	0	2,737 3,180	(s)	
2016	13,056	6	16	Ö	Ö	16	9,351	856		Ö	4	3,798	(s)	
2017	12,570	6	16	0	0	16	6,913	1,489		0	15	5,084	5	
2018 2019	14,443 13,149	9 12	34 41	0	0	34 41	5,632 6,952	1,382 1,340		0	27 32	5,549 7,211	-36 0	
2020	11,587	11	38	ŏ	ŏ	38	6,189	1,390		ŏ	54	9,115	ŏ	
2021 2022	11,626 11,929	11 13	136 82	0	0	136 82	6,881 5.619	1,123 1,057		0	61 74	9,592 12,614	0	
2022	11,323	10	02	0	0		Frillion Btu	1,007		0	74	12,014	0	
1960 1965	6.3	32.1 35.9	0.4	0.0	0.6	1.0	0.0	R 3.3 R 3.8	0.5	0.0	NA	NA	0.0	R 43.2 R 52.7
1965	11.9	35.9	0.4	0.0	0.7	1.1	-0.1	R 3.8	0.0	0.0	NA	NA	0.0 0.0	R 52.7
1970 1975	24.1 26.8	48.0 37.0	0.7 1.8	0.0 0.0	1.2 4.1	1.9 5.9	0.0 65.2	R 4.7 R 4.1	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	R 78.7 R 139.1
1980	88.4	11.3	0.5	0.0	1.1	1.6	63.1	R46	0.0	0.0	NA	NA	0.0	H 168 9
1985	110.4	1.2	0.4	0.0	0.0	0.4	43.9	R 4.9	0.0	0.0	0.0	0.0	0.0	n 160 7
1990 1995	137.5 172.7	3.6 3.1	0.2 0.4	0.0 0.0	(s) 0.0	0.2 0.4	79.5 78.6	R 3.9 R 4.9	0.0 0.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 224.5 R 259.9
2000	198.6	5.6	0.6	0.0	0.1	0.7	90.0	R 5.1 R 3.0	0.1	0.0	0.0	0.0	0.0	R 300.1
2005	220.8	8.0	0.3	0.0	0.1	0.4	91.9	R 3.0 R 3.0	0.5	0.0	0.0	R 0.3 R 0.9	(s)	R 324.8
2006 2007	219.2 208.7	7.8 11.1	0.2 0.3 0.4	0.0 0.0	(s) 0.1	0.2 0.5	93.9 115.8	R 1.2	0.5 0.6	0.0 0.0	0.0 0.0	110.9 R n 7	(s) (s)	R 325.6 R 338.6
2008	226.8	7.3	0.4	0.0	(s)	0.4	99.1	H12	0.6	0.0	0.0	R 0.7 P 0.7	(s)	R 338.6 R 336.1
2009	242.3	3.3 4.0	0.3 0.3	0.0	(s)	0.3	98.7	R 1.5 R 4.5	0.6	0.0	0.0	R 1.3 R 1.4	(s) 0.0	R 348.0 R 368.3
2010 2011	241.8 266.3	4.0 4.3	0.3	0.0 0.0	(s) (s)	0.3 0.4	115.5 72.5	R 5.5	0.7 0.6	0.0 0.0	0.0 0.0	R 3.6	0.0	R 353.3
2012	253.7 272.7	7.9 4.7	0.4 0.2 0.5	0.0		0.2 0.5	60.8	R 4.3 R 3.8	0.6	0.0	0.0 0.0	R 4 4	0.0 0.0	R 331.8 R 360.3
2013	272.7	4.7	0.5	0.0	(s) 0.0	0.5	71.7	R 3.8	0.6	0.0	0.0	R 6.1	0.0	R 360.3
2014 2015	254.6 245.1	4.3 4.5	0.6 0.1	0.0 0.0	0.0 0.0	0.6 0.1	105.7 108.0	R 4.0 R 5.7	0.6 0.7	0.0 0.0	0.0 0.0	R 9.3 R 10.9	(s) 0.0	R 379.1 R 375.0
2016	220.5	6.2	0.1	0.0	0.0	0.1	97.8	R 5.7 R 2.9	0.9	0.0	(s) _ 0.1	R 13 0	(s)	H 341 3
2017	212.8 243.7	6.6	0.1 0.2	0.0	0.0	0.1	72.3 58.9	R 5.1 R 4.7	0.9	0.0	, 0.1	R 17.3 R 18.9	(s) -0.1	R 315.1 R 337.0
2018 2019	243.7 222.9	9.7 12.9	0.2 0.2	0.0 0.0	0.0 0.0	0.2 0.2	58.9 72.6	R 4.7	0.9 0.8	0.0 0.0	R 0.1	R 18.9	-0.1 0.0	R 337.0
2019	198.6	11.6	0.2	0.0	0.0	0.2	64 6	R 4.7	0.9	0.0	R 0.1 R 0.2	R 31.1	0.0	R 311.9
2021	199.3	12.0	0.8 0.5	0.0	0.0	0.8	R 71.8	H 3.8	0.9	0.0	R 0.2	R 32.7	0.0	R 321.5
2022	206.5	13.4	0.5	0.0	0.0	0.5	58.6	3.6	0.8	0.0	0.3	43.0	0.0	326.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Nevada

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthoui	rs	Thousan	d barrels
1960	151	12	2,409	773	2,462	3,621	246	623	10.134	0	1,967	0	NA	NA
1965	309	28	2,775	720	2,999	5,504	137	828	10,134 12,963	0	1.595	0	NA	NA
1970 1971	680 1,533	53 67	2,834 3,152	839 838	4,584 4,853	7,374 7,721	143 224	927 907	16,700 17,695	0	1,646 1,678	0	NA NA	NA NA
1972	3.737	70	2 959	769	5 287	8,495	281	1,144	18 934	Ö	1.563	Ö	NA	NA
1973 1974	4,003 4,467	73 63	3,258 2,527	693 689	5,591 5,572	8,999 8,953	415 809	1,265 1,359	20,221 19,909	0	1,669 1,600	0	NA NA	NA NA
1975	4,521	63 61 67	2,565 2,762	493 442	5,859 6,157	9,633	1,339 723	1,182	21,070 21,091	0	1,690 1,555	0	NA	NA
1976	5,005	67	2,762	442	6,157	10,003	723	1,005	21,091	0	1,555	0	NA	NA
1977 1978	5,229 4,134	71 65	3,086 3,929	425 380	6,502 6,884	10,607 11,698	1,444 2,858	1,039 1,148	23,102 26,897	0	1,617 1,666	0	NA NA	NA NA
1979	4.490	84 58 73 47	3.144	850 880	7.378	11,328 11,224	1.444	1.157	25,300 26,715	Ö	1,716 2,372	Ō	NA	NA
1980 1981	4,215 5,076	58 72	3,966 3,490	880 835	7,223 7,030	11,224 11,559	2,439 285	982 888	26,715 24,088	0	2,372 1,729	0	NA 2	NA NA
1982	6,617	47	3,525	976	6,722	11,311	236	930	23,699	0	1,420	0	2	NA NA
1983	6 289	42	5 292	975	6,748	11 288	104	1,060	25 467	0	4 094	0	1	NA
1984 1985	6,948 5,539	42 39	5,346 5,289	793 1,043	5,927 5,715	11,558 11,627	219 165	1,042 1,136	24,886 24,975	0	5,613 4,344 4,584	0	0 2	NA NA
1986	7,195	39 34	5,454	924	5,952	12,211	641 525	874	26,057 28,197	Ö	4,584	Ö	40	NA
1987	6,920 8,276	41 48	6,074 6,574	938	6,431 6,416	13,075	525	1,154 1,239	28,197	0	2.526	0	143 138	NA NA
1988 1989	7,667	64	7,369	1,098 1,762	6,105	14,059 14,570	1,004 667	1,708	30,391 32,181	0	2,091 1,859	0	108	NA NA
1990	7.442	65 66	6.815	1.430	6.114	14.942	454	1.324	31,079 31,962	Ō	1,735 2,365	Ō	116	NA
1991 1992	8,091 8,088	66 79	7,056 7,758	1,157 1,009	6,556 6,162	15,353 16,040	464 597	1,377 1,163	31,962 32,730	0	2,365 1,986	0	158 190	NA NA
1993	7,806	85	9,272	910	6,510	16,233	496	1,459	32,730 34,879	ő	1.972	ő	228	NA
1994	7,968 7,340	101	9,271 8,774	1,446 815	6,813	17,231 18,017	380 1,109	1,571	36.712	0	1,876 1,942	0	0	NA
1995 1996	7,340 7,604	109 122	8,774 11,031	970	7,374 7,843	18,962	1,109 276	1,749 1,760	37,837 40,842	0	1,942 2,164	0	304 0	NA NA
1997	7,447	132	9,987	852	7,559	19,952	230	759	39,339 40,744	Ō	2,587	Ō	0	NA
1998	8,216 8,067	149 155	9,207 9,426	911 1,378	6,721 8,354	22,070 21,583	145	1,690 1,124	40,744 41,930	0	3,166 2,828	0	352 636	NA NA
1999 2000	8.865	189	9,750	1.313	9,163	22,063	64 80	1.080	43,448	0	2.429	0	689	NA NA
2001	8,399 8,071	177	9,646	1,529 1,111	8,414	22,877	2,090 19	1,332 1,276	45,888 43,814	0	2,514 2,268	0	747	1
2002 2003	8,071 8,095	177 186	9,672 9,229	1,111 790	8,154 7,651	23,582 24,863	19 8	1,276 2,085	43,814 44,625	0	2,268 1,757	0	881 1,031	1
2004	8,715	215	11,388	614	7,915	26.050	149	2,164	44,625 48,280	Ō	1.615	Ō	1,058	2
2005 2006	8,826	227	12,452	931 911	8,157	27,137 28,237	6 13	2,486 2,456	51.169	0	1.702	0	1,060	8
2006	3,696 3,651	250 254	13,862 13,431	911	8,551 9,207	28,237 28,414	8	1,669	54,031 53,645	0	2,058 2,003	0	1,025 1,239	22 30 26 27 22 75
2008	4,078	265	11,692	1,213	7,717	27,227	Ō	1,684	49,533	Ö	1,751	Ö	1,877	26
2009 2010	3,975	275	11,721	1,241 1,175	4,886 12,912	26,472	0	1,587 2,008	45,907	0	2,461 2,157	0	2,133 2,142	27
2010	3,780 2,973	259 250	11,663 9,504	1,128	12,814	26,083 25,589	8	2,144	53,840 51,186	0	2.191	0	2.143	75
2012	2,556	274	8,849	1.081	12,722	25,492	0	2,019	50,163 51,656	0	2,440 2,682	129	2,058	1
2013 2014	3,267 3,777	273 253	9,690 10,757	1,150 1,143	12,856 13,157	26,084 26,163	0	1,876 1.816	51,656 53,037	0	2,682 2,389	251 300	2,122	43 145 5
2015	1,808	253 300 304	8,242	1,067	13,501	26,163 27,353	ő	1,798 R 1,604	53,037 51,961 R 56,158 R 59,374 R 59,727	Ö	2,389 2,264	310	2,290 2,838	5
2016 2017	1,478	304 294	11,146 12,608	999 1,185	14,381 14,914	28,026 28,749	0	H 1,604	H 56,158	0	1.789	344 361	2.878	211
2017	1,356 1,707	300	12,921	1,141	14,445	29,416	0	R 1,918 R 1,803	R 59,727	0	1,813 1,881	312	2,992 3,036	198 198
2019	1,837 1,354	303	13 254	1.262	14 005	29,251	Õ	H 1 713	n 59 486	Ō	2 242	329	3.074	198
2020 2021	1,354 1,732	299 294	11,358 R 12,657	1,197 1,284	8,626 11,524	25,106 28,173	0	R 1,731 R 1,920	R 48,017 R 55,557	0	1,923 1,944	325 340	2,663 3,008	198 198
2021	1,789	294 290	12,627	1,444	13,646	29,031	0	1,963	58,711	0	1,686	316	3,107	198
	.,. 30	_50	,	.,		,		.,	,		.,		-,.01	.50

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Nevada (trillion Btu)

					Fossi	fuels						Fossil fuels (as commingled)	
						Petroleum						(as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	4.0	12.9	14.0	2.9	13.2	19.0	1.5	3.6	54.4	71.2	12.9	14.0	19.0
1965 1970	7.9 17.3	29.4 56.9	16.2	2.8 3.2	16.3 25.3	28.9 38.7	0.9	4.9	69.9 90.4	107.2	29.4 56.9	16.2 16.5	28.9 38.7
1970 1971	17.3 36.4	56.9 72.0	16.5 18.4	3.2	25.3 26.8	38.7 40.6	0.9 1.4	5.8 5.7	90.4 96.0	164.6 204.4	56.9 72.0	16.5 18.4	38.7 40.6
1972	84.4	75.2	17.2	3.2 2.9 2.6	29.3	44.6	1.8	7.3	103.1	262.7	75.2	17.2	44.6
1973	90.1	78.0	19.0	2.6	31.1	47.3	2.6	8.0	110.7	278.7	78.0	19.0	47.3
974 975	100.5 101.3	67.7 65.4	14.7 14.9	2.6	31.0 32.7	47.0 50.6	5.1 8.4	8.6 7.4	109.1 115.9	277.2 282.6	67.7 65.4	14.7 14.9	47.0 50.6
976	111.3	71.2	16.1	1.9 1.7 1.6	32.7 34.4	50.6 52.5	8.4 4.5	6.3	115.6	298.1	71.2	14.9 16.1	50.6 52.5
1977	115.9	74.5	18.0	1.6	36.3	52.5 55.7	9.1	6.5	127.2	317.7	74.5	18.0	<i>55.7</i>
1978 1979	91.3 99.3	66.3 85.5	22.9 18.3	1.4 3.2	38.5	61.4 59.5	18.0	7.2	149.4 138.6	307.0 323.5	66.3 85.5	22.9 18.3	61.4
1979 1980	99.3 93.2	85.5 62.0	18.3 23.1	3.2 3.3	41.3 40.4	59.5 59.0	9.1 15.3	7.3 6.1	138.6 147.1	323.5 302.4	85.5 62.0	18.3 23.1	59.5 59.0
1981	112.2	78.7	20.3	3.1	39.2	60.7	1.8	5.5	130.6	321.6	78.7	20.3	60.7
1982	146.5	49.9 44.7	20.5	3.6	37.4	59.4	1.5 0.7	5.9	128.4	324.7	49.9 44.7	20.5	59.4
1983 1984	140.2 155.6	44.7 44.7	30.8 31.1	3.6 3.0	37.6 32.9	59.3 60.7	0.7 1.4	6.7 6.6	138.7 135.7	323.7 336.0	44.7 44.7	30.8 31.1	59.3 60.7
985	126.2	41.6	30.8	3.0	32.9	61.1	1.4	7.3	135.7	303.6	41.6	30.8	61.1
986	161.6	35.8	31.8	3.9 3.5	33.0	64.1	4.0	5.5	141.9	339.3	35.8	31.8	64.1
987	154.9	41.7	35.4	3.5	35.7 35.6	68.7	3.3 6.3	7.4	153.9 166.1	350.5 397.9	41.7 48.4	35.4	68.7
988 989	183.5 170.2	48.3 65.5	38.3 42.9	4.1 6.5	35.6	73.9 76.5	6.3 4.2	7.9 11.0	166.1 175.1	397.9 410.9	48.4 65.6	38.3 42.9	73.9 76.5
990	165.3	66.8	39.7	5.3	34.0	78.5	2.9	8.5	168.9	401.0	66.9	39.7	78.5
991	180.3	68.2 81.2 87.5	41.1	6.5 5.3 4.3 3.8 3.4	36.5	80.6	2.9 3.8 3.1	8.8	174.3	422.8	68.2 81.2 87.5	41.1	80.6
1992 1993	178.8 172.4	81.2	45.2 54.0	3.8	34.4 36.5	84.3 83.9	3.8	7.4 9.4	178.8 190.3	438.8 450.2	81.2	45.2 54.0	84.3 84.7
994	180.3	104.9	54.0	5.3	38.6	89.8	2.4	10.1	200.3	485.5	104.9	54.0	89.8
994 1995	162.5	112.5	51.1	5.3 3.1	41.8	89.8 92.7	7.0	11.4	207.0	482.0	112.5	51.1	93.8
1996 1997	169.5	126.9	64.2 58.1	3.6 3.2	44.5 42.9	98.8 103.9	1.7	11.4	224.2 214.2	520.6	126.9 135.5	64.2 58.1	98.8 103.9
1997	166.7 184.2	135.5 154.7	53.6	3.2	42.9 38.1	113.6	1.4 0.9	4.8 10.9	214.2	516.4 559.5	154.7	58.1 53.6	103.9 114.8
1999	181.6	160.0	54.9	5.2	47.4	110.1	0.4	7.2	225.0	566.6	160.0	54.9	112.3
2000	199.3	194.1	56.7	4.8	52.0	112.4	0.5	6.9	233.2	626.7	194.1	56.7	114.7
2001 2002	188.6 164.8	181.3 181.0	56.1 56.3	5.5 4.2	47.7 46.2	116.4 119.5	13.1 0.1	8.5 8.1	247.5 234.5	617.3 580.3	181.3 181.0	56.1 56.3	119.0 122.6
2003	182.6	191.1	53.7	2.9 2.3	43.4	125.6	(s)	13.6	239.3	612.9	191.1	53.7	129.2
2004	193.6	221.6	66.3	2.3	44.9	131.7	(s) 0.9	14.1	239.3 260.2	675.4	221.6	66.3	135.4
2005 2006	197.8 84.2	236.0 257.6	72.4 80.4	3.5 3.4	46.2 48.5	137.2 142.9	(s) 0.1	16.1 15.9	275.6 291.2	709.4 633.0	236.0 257.6	72.4 80.4	140.9 146.4
2006	82.9	262.5	77.7	3.4	52.2	141.8	0.1	10.7	285.9	631.3	262.5	77.7	146.1
2008	88.6	274.9	67.6	3.5 4.5 4.6	43.8	132.5	0.0	10.8	285.9 259.1	622.7	262.5 274.9	67.6	139.0
2009 2010	83.8	284.0 267.8	67.2 67.0	4.6	27.7	127.4	0.0	10.2 12.9	237.1 282.4 267.1	604.9	284.0 267.8	67.7 67.4	134.7
2010	80.2 62.7	257.8 256.0	54.1	4.5 4.3	73.2 72.7	124.7 122.1	0.0 0.1	13.9	282.4 267.1	630.4 585.7	256.0	54.8	132.2 129.6
2012	52.8	281.4	50.2	4.2 4.4	72.1	121.9	0.0	13.1	261.5 268.2	595.8	281.4	51.0	129.0
2013	64.8	282.2	54.3	4.4	72.9	124.6	0.0	12.0	268.2	615.3	282.2	55.8	132.0
2014 2015	79.2 36.6	261.9 312.6	60.6 46.0	4.4 4.1	74.6 76.5	124.4 128.5	0.0 0.0	11.6 _ 11.5	275.6 266.6	616.8 615.9	261.9 312.6	62.0 47.5	132.4 138.3
2016	30.8	316.7	62.1	3.8	81.5	131.7	0.0	R 10.3	_ 289.4	636.8	316.7	64.2	141.7
2017	27.3	305.3	70.4	4.6	84.6	134.9	0.0	12.1	289.4 R 306.6	R 639.2	305.3	72.6	145.3
2018 2019	35.0 37.2	310.9 315.6	72.5 74.4	4.4	81.9 79.4	138.1 137.1	0.0 0.0	11.4 R 10.8	308.3	R 654.2	310.9	74.4 76.3	148.7 147.8
2019	37.2 27.8	310.7	63.3	4.8 4.6	79.4 48.9	117.6	0.0	R 10.8	306.5 R 245.3	R 659.3 R 583.8	315.6 310.7	65.4	147.8 126.8
2021	35.9	305.2	R 72.0	4.9	65.3	131.8	0.0	12.1	H 285.5	R 626.7	305.2	R 73.0	142.3
2022	35.8	302.3	71.9	5.5	77.4	135.8	0.0	12.3	302.2	640.4	302.3	72.8	146.6

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Nevada (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0 0.0	R 6.7 R 5.4	0.9 0.9	NA NA	NA NA	NA NA	NA NA	0.9 0.9	0.0 0.0	NA NA	NA NA	R 7.7 R 6.3	R 8.7 R 11.6	0.0 0.0	R 87.6 R 125.1
1970 1971	0.0 0.0	R 5.6 R 5.7	1.1	NA NA	NA NA	NA NA	NA NA	1.1	0.0 0.0	NA NA	NA NA	R 6.7 R 6.8	R 11.6 R 11.7 B 17.4	0.0 0.0	R 125.1 R 182.9 R 193.9
1971	0.0	Rag	1.1	NA NA	NA NA	NA NA	NA NA	1.1	0.0	NA NA	NA	R 6.4	R -17.4 R -59.5 R -60.3 R -59.7 R -60.8 R -62.8 R -74.5	0.0	H 209 6
1973 1974	0.0 0.0	R 5.7 R 5.5	1.0 1.1	NA NA	NA NA	NA NA	NA NA	1.0 1.1	0.0 0.0	NA NA	NA NA	R 6.7 R 6.5	R -60.3	0.0 0.0	R 225 1
1975	0.0	R 5.8	12	NA NA	NA NA	NA NA	NA	1.2	0.0	NA	NA	H70	R -60.8	0.0	R 224.1 R 228.8
1976	0.0	H E 3	1.3 1.5 1.7	NA	NA	NA	NA	1.3	0.0	NA	NA	R 6.6 R 7.0	R -62.8	0.0	H 2//1 Q
1977 1978	0.0 0.0	R 5.5 R 5.7	1.5 1.7	NA NA	NA NA	NA NA	NA NA	1.5 1.7	0.0 0.0	NA NA	NA NA	7.0 R 7.4	R -/4.5	0.0 0.0	R 250.2 R 273.5
1979	0.0	H 5.9	2.0	NA	NA	NA	NA	2.0	0.0	NA	NA	R 7.4 R 7.9	R -44.7	0.0	H 286.6
1980 1981	0.0 0.0	R 8.1 R 5.9	2.8 3.7	NA (s)	NA NA	NA NA	NA 0.0	2.8 3.7	0.0 0.0	NA NA	NA NA NA	R 10.9 R 9.6	H -31.7 R -54.0	0.0 0.0	R 281.5 R 277.2
1982	0.0	RAR	3.9	(s)	NA	NA	0.0	3.9	0.0	NA	NA	Hg7	R -44.5 R -40.9 R -31.7 R -54.0 R -54.5 R -52.8 R -70.2 R -30.4	0.0	R 278.9
1983 1984	0.0 0.0	R 14.0 R 19.2	4.1 4.5 4.6 4.2 2.2 2.3	(s) 0.0	NA NA	NA NA	0.0 0.0	4.1 4.5	0.0 0.0	NA 0.0	0.0 0.0	R 18.1 R 23.6	H -52.8 R -70.2	0.0 0.0	R 288.9 R 289.4
1985	0.0	R 14 8	4.6	(s) 0.1	NA	NA	0.0	4.6	0.0	0.0	0.0	R 10 /	R -30.4	0.1	н 292.7
1986 1987	0.0 0.0	R 15.6 R 8.6	4.2	0.1 0.5	NA NA	NA NA	0.0 0.0	4.3 2.7	0.0 0.0	0.0 0.0	0.0 0.0	R 20.0 R 11.3 R 9.9	R -66.4 R -40.8	0.0 0.1	R 292.9 R 321.1
1988	0.0	H 7.1	2.3	0.5	NA NA	NA NA	0.0	2.7	0.0	0.0	0.0	R 9.9	R -63.1	0.0	R 344.7
1989	0.0	R 6.3 R 5.9	2.5 2.9	0.4	NA	NA	0.0	2.8	Rag	0.1	0.0	R 12.5	R -46.0	0.2	H 377 6
1990 1991	0.0 0.0	H 8.1	2.9 3.0	0.4 0.5	NA NA	NA NA	0.0 0.0	3.3 3.5	R 3.4 R 4.2	0.1 0.1	0.0 0.0	R 12.5 R 12.6 R 15.9	R -63.1 R -46.0 R -19.0 R -36.7 R -36.6	(s) (s) (s)	R 394.6 R 402.0
1992	0.0	R 6.8	3.1	0.7	NA	NA	0.0	3.8	R 4.9	0.1	0.0	H 15 6	R -36.6	(s)	H 417 8
1993 1994	0.0 0.0	R 6.7 R 6.4	3.4 3.2	0.8 0.0	NA NA	NA NA	0.0 0.0	4.2 3.2	R 6.2 R 6.1	0.1 0.1	0.0 0.0	R 17.1 R 15.8	R -28.2 R -22.9 R -7.7	(s) (s)	R 439.1 R 478.4
1995	0.0	R 6 6	3.4 3.2 3.2 3.6	1.1	NA	NA	0.0	4.3	R 6.1 R 6.2	0.2	0.0	R 15.8 R 17.3 R 17.3 R 19.8	R -7.7	0.0	R 491.5 R 535.4 R 537.4
1996 1997	0.0 0.0	R 7.4 R 8.8	3.6 4.5	0.0 0.0	NA NA	NA NA	0.0 0.0	3.6 4.5	R 6.2 R 6.3	0.2 0.3	0.0 0.0	H 17.3 R 19.8	R -2.5 R 1.1	0.0 0.0	H 535.4 R 537.4
1998	0.0	R 10 8	4.0	1.2	NA	NA	0.0	5.2	R 6.1 R 5.9 R 5.8	0.3	0.0	H 22.4	R -27.0 R -10.5 R -44.7 R -28.1 R 3.4	0.0	H 554 9
1999 2000	0.0 0.0	R 9.6 R 8.3	4.1 4.4	2.2 2.4	NA NA	NA NA	0.0 0.0	6.3 6.8	H 5.9 R 5.9	0.4 0.5	0.0 0.0	R 22.3 R 21.3	H -10.5	0.0 0.0	R 578.3 R 603.3
2001 2002	0.0	H 8.6	3.3 3.1	2.6	(s)	NA	0.0	5.9 6.2	H53	0.5 0.6	0.0	R 20.3	R <u>-2</u> 8.1	0.0	H 609 5
2002	0.0 0.0	R 7.7 R 6.0	3.1	3.1	(s)	NA NA	0.0 0.0	6.2 6.9	R 5.0 R 4.8	0.6 0.6	0.0 0.0	H 19.5	H 3.4	0.3 0.8	H 603.5
2003 2004	0.0	R 5 5	3.3 3.4	3.6 3.7	(s) (s)	NA	0.0	7.0	H 5 6	0.6	0.0	R 20.3 R 19.5 R 18.2 R 18.8	R -27.1	0.6	R 603.5 R 633.2 R 667.7
2005 2006	0.0	R 5.8 R 7.0	2.8 2.5 2.7 3.0	3.7 3.6	(s)	NA	(s) (s) (s)	6.6	R 5.6	0.7	0.0 0.0	R 18.6 R 19.8	1.4 R -27.1 R -41.2 R 66.8 R 56.3	0.8 0.3	R 687.7 R 720.0
2007	0.0 0.0	H 6.8	2.5	4.3	0.1 0.2	NA NA	(S) (S)	6.2 7.2	R 5.9 R 5.6	0.8 R 1.1	0.0	H 20.7	R 56.3	1.0	H 709.3
2008	0.0	R 6.0	3.0	6.5	0.1	NA	(s)	9.6	R 6.1	R 1 5	0.0	н 23 2	R 28.5 R -7.4	0.1	R 674.4
2009 2010	0.0 0.0	R 7.4	2.5 2.9	7.4 7.4	0.1 0.1	NA NA	(s) (s)	10.1 10.4	R 7.0 R 8.5	R 1.6 R 1.8	0.0 0.0	R 27.0 R 28.0	H 10 0	-0.1 (s)	R 624.4 R 669.4
2011	0.0	R 8.4 R 7.4 R 7.5 R 8.3	2.3 2.1	7.4	0.4	0.0	(s)	10.1	R 8.9	R 2.1 R 2.8 R 3.8	0.0 R 0.4	R 28.6 R 30.4	R 40.7 R 23.3 R 13.5 R 13.6	(s) 0.6	R 655.6 R 650.0
2012 2013	0.0 0.0	R 9.2	2.1 2.7	7.1 7.4	(s) 0.2	0.0 0.0	(s) (s)	9.3 10.3	R 9.6 R 10.7	n 2.8 R 3.8	H D G	R 30.4 R 34.8	R 13.5	0.5	R 650.0 R 663.6
2014	0.0	H 8.2	2.7 2.8	7.9	0.8	0.0	(s)	11.5	H 10.9	R 4.8	R 1 n	R 36.4	R 13.6	(s) 0.1	H 666.8
2015 2016	0.0 0.0	R 7.7 R 6.1	2.6 R 3.0	9.9 10.0	(s) 1.1	0.0 0.0	0.ó 0.0	12.5 14.2	R 12.2 R 13.0	R 4.8 R 7.3 R 13.0	R 1.1 R 1.2	R 40.8 R 47.4	n -42	(s) 0.2	R 652.4 R 675.6
2017	0.0	R 6.2	R 3.1 R 4.0	10.4	1.1	0.0	0.0	14.6	H 12.8	R 16.6 R 18.9	H 1.2	R 51 4	R -8.8 R 7.4	0.2	H 698.1
2018	0.0 0.0	R 6.4 R 7.6	H 4.0	10.6	1.1 1.1	0.0 0.0	0.0 0.0	15.7	R 13.4 R 14.9	H 18.9	R 1.1 P 1.1	R 55.4 R 59.3	R 4.0 R -4.6	0.1 0.0	R 713.7 R 714.0
2019 2020	0.0	H 6.6	4.1 R 2.9	10.7 9.3	1.1	0.0	0.0	15.9 B 13.2	n 14.5	R 19.8 R 22.9	H11	H 58.3	···-4.6 0.1	0.0	R 642.1
2021 2022	0.0 0.0	R 6.6 5.8	R 2.8 3.1	10.5 10.8	1.1 1.1	0.0 0.0	0.0 0.0	R 14.3 15.0	R 14.9 14.9	R 27.2 36.6	R 1.2 1.1	R 64.2 73.3	-0.1 R -3.7 -7.6	0.0 0.0	R 687.2 706.1

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

There is a discontinuity in this time series between 1900 and 1900 due to the expanded servings of consumption in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Nevada

						Petroleum					Bion	nass						
•	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power g,h					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet		•	1	Thousand barrels	<b>s</b>	·		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	151	6	2,402	773	2,462	3,621	204	623	10.086	(s)					2,167			
1970	136	27	2,821	839	4,584	7,374	63	927	16,607	(s)					5,693			
1980	151	31	3,944	880	7,223	11,224	8	982	24,262	0					10,408			
1990 2000	172 231	41 68	6,724 9,702	1,430 1,313	6,114 9,163	14,942 22,063	10 8	1,324 1.080	30,544 43,329	0					16,352 27,792			==
2005	204	79	12,414	931	8,157	27,137	(s)	2,486	51,125	0					32,501			
2006	208	83	13,836	911	8,551	28,237	2	2,456	53,994	0					34,586			
2007	204	83	13,409	915	9,207	28,414	5	1,669	53,620	0					35,643			
2008 2009	201 153	84 83	11,664 11,689	1,213 1,241	7,717 4,886	27,227 26,472	0	1,684 1,587	49,505 45,875	0					35,192 34,284			
2010	192	83	11,638	1,175	12,912	26,083	ő	2,008	53,815	0					33,773			
2011	110	87	9,476	1,128	12,814	25,589	8	2,144	51,158	0					33,916			
2012	299	84	8,808	1,081	12,722	25,492	0	2,019	50,123	0					35,180			
2013 2014	334 331	92 87	9,655 10,728	1,150 1,143	12,856 13,157	26,084 26,163	0	1,876 1.816	51,622 53,008	0					35,211 35,076			
2014	301	90	8,211	1,067	13,501	27,353	0	1,798	51,930	0					36,020			
2016	285	94	11,125	999	14,381	28,026	0	R 1,604	R 56,136	0					36,145			
2017	258	97	12,589	1,185	14,914	28,749	0	R 1,918	R 59,355	0					36,658			
2018 2019	295 286	100 109	12,900 13,230	1,141 1,262	14,445 14,005	29,416 29,251	0	R 1,803 R 1,713	R 59,706 R 59,461	0					37,780 36,982			
2019	249	96	11,345	1,262	8,626	25,106	0	R 1,713	R 48,004	0					38,234			
2021	242	98	R 12,641	1,284	11,524	28,173	0	R 1,920	R 55,541	ő					39,032			
2022	212	103	12,608	1,444	13,646	29,031	0	1,963	58,692	0					39,320			
									Trillion	Btu								
1960	4.0	6.3	14.0	2.9	13.2	19.0	1.3	3.6	54.1	(s)	0.9	NA	NA	NA	7.4	72.7	R 14.9	R 87.6
1970	3.3	29.5	16.4	3.2	25.3	38.7	0.4	5.8	89.9	(s)	1.1	NA	NA	NA	19.4	143.1	R 39.8	R 182.9
1980	3.5	32.5	23.0	3.3	40.4	59.0	0.1	6.1	131.7	0.0	2.8		NA	NA	35.5		R 75.5 R 123.4	R 281.5 R 394.6
1990 2000	4.0 5.4	41.8 70.2	39.2 56.5	5.3 4.8	34.0 52.0	78.5 114.7	0.1 0.1	8.5 6.9	165.6 234.9	0.0	2.9 4.4		0.8 1.1	0.1 0.5	55.8 94.8	271.2 411.2	** 123.4 R 192.1	R 603.3
2005	4.6	82.9	72.2	3.5	46.2	140.9	(s)	16.1	279.0	0.0	2.8		1.3	0.7	110.9	482.3	R 205.4	R 687.7
2006	4.7	85.8	80.3	3.4	48.5	146.4	(s)	15.9	294.6	0.0	2.5	(s)	1.3	_ 0.8	118.0	_ 507.8	R 212.2	R 720.0
2007	4.7	85.9	77.6	3.5	52.2	146.1	(s)	10.7	290.0	0.0	2.7		1.3	R 0.9	121.6		R 201.9	R 709.3
2008 2009	4.4 3.4	86.7 85.9	67.4 67.5	4.5 4.6	43.8 27.7	139.0 134.7	0.0 0.0	10.8 10.2	265.5 244.8	0.0	3.0 2.5		1.4 1.4	R 1.0 R 1.0	120.1 117.0	R 482.1 R 455.9	R 192.3 R 168.9	R 674.4 R 624.8
2009	4.2	86.5	67.2	4.6	73.2	134.7	0.0	12.9	290.0	0.0	2.5		1.4	R 1.0	115.2		R 168.3	R 669.6
2011	2.5	89.3	54.7	4.3	72.7	129.6	0.1	13.9	275.1	0.0	2.3		1.6	R <sub>4</sub> o	1157	R 487 7	R 168.2	R 656.0
2012	6.9	87.3	50.8	4.2	72.1	129.0	0.0	13.1	269.2	0.0	1.9		1.5	R 1.3	120.0	R 488.2	R 162.6	R 650.8
2013	7.6	94.8	55.6	4.4	72.9	132.0	0.0	12.0	277.0	0.0	2.4		1.5	R 1.4	120.1	R 504.9	R 160.1	R 664.9
2014 2015	7.3 6.8	89.4 93.9	61.8 47.3	4.4 4.1	74.6 76.5	132.4 138.3	0.0	11.6 11.5	284.8 277.8	0.0	2.5 2.3		1.5 1.5	R 1.5 R 1.8	119.7 122.9	R 506.8 R 507.1	R 160.6 R 146.8	R 667.4 R 653.9
2016	6.4	98.1	64.0	3.8	81.5	141.7	0.0	R 10.3	R 301.4	0.0	2.3			R 2.5	123.3	R 535.6	R 140.9	R 676.6
2017	5.8	101.2	72.5	4.6	84.6	145.3	0.0	12.1	R 319.0	0.0	2.3	0.0	1.5	R 2.7	125.1	R 557.6	R 141.6	R 699.2
2018	6.8	103.6	74.3	4.4	81.9	148.7	0.0	11.4	320.6	0.0	3.3		1.5	R 3.0		R 567.8	R 146.8	R 714.6
2019	6.7	113.9	76.2	4.8	79.4	147.8	0.0	R 10.8	R 319.0 R 256.6	0.0	3.2 R 2.1			R 3.6 R 4.3	126.2	R 574.1 R 500.6	R 140.7 R 142.5	R 714.9 R 643.1
2020 2021	5.9 5.6	99.7 101.3	65.3 R 72.9	4.6 4.9	48.9 65.3	126.8 142.3	0.0 0.0	R 10.9 12.1	R 297.5	0.0	R 2.1	0.0	1.5 1.5	R 4.9	130.5 133.2		R 141.5	R 687.7
2022	4.9	107.4	72.7	5.5	77.4	146.6	0.0	12.3	314.5	0.0	2.4			6.0	134.2		135.7	706.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Nevada

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	18	2	219	225	0	443				719			
1965	18 39	4	286	225 424	0	711				1.268			
1970	37	7	328 265	508	0	836				1,990 2,803			
1975	3	11	265	259	0	524				2,803			
1980	1 (2)	13 13	187 276	349 532	0 47	536 855				3,697 4,126			
1985 1990	(s)	17	213	668	8	890				5,540			
1995	(s)	21	176	416	6	598				6,655			
2000	(s) 0	21 30	212	445	8	665				9,406			
2005		36	204 157	457	18	679				11.080			
2006 2007	(s) (s)	38	157	490	16	663				11,978			
2007	(s)	36 38 38 39 39 39	147	483	17	646				12,390			
2008	0	39	160	551	9	720				12,061			
2009 2010	0	39	117	675 622	25 21	818				11,880 11,615			
2010	0	41	97	643	3	740 720				11,493			
2012	0	37	74 52	451	2	505				12,123			
2013	0	42	29	651	1	680				12 142			
2014 2015	ŏ	35	74 52 29 26 33	514	(s)	540				11,917 12,339			
2015	Ö	35 37	33	517	(s)	550				12,339			
2016	0	39	38	530	(s)	569				12.692			
2017	0	41 42	42	572	(s)	615				12,937			
2018	0	42	39	484		523				13,450			
2019	0	48	46	522 609	1	569				12,868			
2020 2021	0	46 45	45 47	588	(0)	655 636				14,322 14,373			
2022	0	47	48	574	(s) (s)	623				14,307			
		.,		· · · ·	(0)	020	Trillion Btu			1 1,001			
1960	0.4	2.0	1.3	0.9	0.0	2.1	0.9	NA	NA	2.5	8.0	R 4.9 _R 8.5	R 12.9
1965 1970	1.0 0.9	4.4 7.9	1.7 1.9	1.6 2.0	0.0 0.0	3.3	0.9 1.0	NA NA	NA NA	4.3 6.8	13.9 20.4	R 13.9	R 24.2
1975	0.9	11.8	1.5	1.0	0.0	3.3 3.9 2.5	1.0	NA NA	NA NA	9.6	20.4 25.2	R 19.5	R 22.4 R 34.3 R 44.7
1980	(s)	13.9	1.1	1.3	0.0	2.3	27	NA	NA	12.6	31.6	R 26.8	R 58.5
1985	(s)	13.4	1.6	2.0	0.3	2.4 3.9	2.7 4.5	NA	NA NA	14.1	35.9	R 26.8 R 28.6 R 41.8	R 58.5 R 64.5
1990	(s)	17.7	1.2 1.0	2.6		3.9 2.7 3.0	2.6 2.8	0.1	0.1	18.9	43.2	R 41.8	R 85.0 R 99.6 R 135.2
1995 2000	(s)	21.4 30.8		1.6	(s) (s)	2.7	2.8	0.1	0.2	22.7	49.9 R 70.1	R 49.7 R 65.0	_ <sup>H</sup> 99.6
2000	0.0	30.8	1.2	1.7	(s)	3.0	3.6	0.2	0.5	32.1	H 70.1	H 65.0	H 135.2
2005	(s)	38.0	1.2	1.8	0.1	3.0	1.9 1.7	0.2	0.7	37.8	81.7	R 70.0	R 151.7 R 159.3 R 157.7
2006 2007	(s)	39.4 39.5	0.9 0.9	1.9 1.9	0.1 0.1	2.9 2.8	1.7	0.2 0.2	0.8 0.8	40.9 42.3	85.8 R 87.5	R 73.5 R 70.2	1159.3 B 157.7
2007	(s) 0.0	40.0	0.9	2.1	0.1	3.1	1.9	0.2	0.8	42.3 41.2	87.5	70.2 R 65.0	157.7 R 153.4
2009	0.0	39.9	0.5	2.6	0.1	3.4	2.1 1.8	0.3	_ 0.9	40.5	_ 86.9	R 58 5	R 145.4
2010	0.0	40.8	0.6	2.4	0.1	3.1	19	0.3	R 0.9	39.6	H 86 7	R 57 9	R 153.4 R 145.4 R 144.6
2011	0.0	41.6		2.5 1.7	(s)	2.9	1.9 1.6	0.3	1.0	39.2	86.9	R 57.0	R 143.9
2012	0.0	38.4	0.4 0.3	1.7	(s)	2.9 2.0	1.6	0.3 0.3	R 1.0	41.4	R 84.7	R 56.0	R 140.8
2013	0.0	43.1	0.2	2.5	(s)	2.7	2.0	0.3	H11	41.4	86.9 R 84.7 R 90.7	R 65.9 R 58.5 R 57.9 R 57.0 R 56.0 R 55.2	H 144.6 R 143.9 R 140.8 R 145.9 R 137.2 R 136.7
2014	0.0	36.3	0.1	2.0	(s)	2.1	2.1	0.3	B 1.1	40.7	H 82.6	R 54.6 R 50.3	H 137.2
2015	0.0	38.5	0.2	2.0	(s)	2.2	1.9	0.3	R 1.4 R 1.9	42.1	R 86.4	1 50.3 B 40.5	n 136.7
2016 2017	0.0 0.0	40.7 42.5	0.2 0.2	2.0 2.2	(s)	2.3 2.4	1.8 R 1.8	0.3 0.3	H 2.0	43.3 44.1	R 90.3 R 93.4	R 49.5 P 50.0	139.8 R 143.2
2017	0.0	43.4	0.2	1.9	(s)	2.4	2.7	0.3	R 2.0 R 2.3	45.9	R 96.7	R 52.3	R 149.0
2019	0.0	49.9	0.2	2.0	(s)	2.3	2.7	0.3	R 2 9	43.9	R 102.0	R <u>⊿</u> q ∩	R 151 0
2020	0.0	47.7	0.3	2.3	(s)	2.6	2.7 R 1.6	0.3	R 3.5 R 4.2	48.9	B 104.7	R 53.4 R 52.1	R 158.0
2021 2022	0.0	46.5	0.3	2.3 2.3	(s)	2.6 2.5 2.5	H 1.6	0.3	R 4.2	49.0	R 104.7 R 104.2	R 52.1	R 139.8 R 149.3 R 149.0 R 151.0 R 158.0 R 156.3
	0.0	49.1	0.3	2.2	(s)		1.9	0.3	5.2	48.8	107.9	49.4	

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Nevada

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	12	1	107	99	0	29	86	321	NA			NA	655			
1965 1970	29 29	2 10	140 161	186 223	1 10	29 44 49	86 38 29	410 472	NA NA			NA NA	1,235 2,069			
1975	6	15	130	114	12	69	34 7	358	NA			NA	2,876			
1980 1985	3	10 12	353 315	153 233	0 5	61 82	7 25	574 661	NA NA			NA NA	1,775 3,408		 	
1990 1995	2	15 19	311 832	293 183	4	84 13	2	694 1,028	0			(s)	4,550 5,509			
2000	0	26	832 401	195	2	13	8	620	0			(s) 1	5,509 7,147			
2005 2006	1 2	27 28	494 521	301 241	3 6	16 17	0	813 784	0		==	2	8,516 8,975			
2007	(s)	28	306	249	6	17	5	582	Ö			16	9,352			
2008 2009	0	29 30	301 246	279 234	3 11	31 17	0	614 507	0			17 16	9,304 8,950			
2010	0	29 31	345	195	8	17	Ö	565	Ö			22	8,970			
2011 2012	0	29	354 205	166 300	(s)	17 17	8 0	547 522	0 0		==	63 71	8,995 9,315			 
2013 2014	0	31 29	320 289	301 267	(s) (s)	27 17	0	648 573	0			75 87	9,302 9,418			
2015	ŏ	30	411	355	(s)	836	Ö	1,603	ŏ			115	9,614			
2016 2017	0	31 32	443 480	229 304	1	852 849	0	1,525 1,634	0			158 167	9,929 11,123			
2018	Ö	32 33 35	518 446	320	(s) 2	863	Ö	1,701	Ö			171	12.124			
2019 2020	0	26	396	380 322	(s)	869 875	0	1,697 1,594	0			175 180	11,681 11,984			
2021 2022	0	31 33	375 376	484 497	`1 1	884 920	0	1,744 1,794	0			173 175	12,294 12,428			
2022	-		370	457		320	0		lion Btu			173	12,420			
1960	0.3	0.0	0.6	0.4	0.0	0.2	0.5	1.7	NA	(e)	NA	NA	2.2	5.2	R 4.5	R 9.7
1965	0.3 0.7	0.9 2.5	0.8	0.7	(s)	0.2	0.5 0.2	2.0	NA	(s) (s)	NA	NA	2.2 4.2	5.2 9.5	Ras	H 17 8
1970 1975	0.7 0.1	10.4 16.0	0.9 0.8	0.9 0.4	0.1 0.1	0.3 0.4	0.2 0.2	2.3 1.8	NA NA	(s)	NA NA	NA NA	7.1 9.8	20.5 27.8	R 14.5 R 20.0	R 34.9 R 47.8
1980	0.1	10.7	2.1	0.6	0.0	0.3	(s)	3.0	NA	(s) 0.1	NA	NA	6.1	19.9	R 12 9	н 32.8
1985 1990	(s) 0.1	13.0 15.5	1.8 1.8	0.9 1.1	(s) (s)	0.4 0.4	0.2 (s) 0.0	3.4 3.4	NA 0.0	0.1 0.3	NA 0.4	NA (s)	11.6 15.5	28.1 35.2	R 23.6 R 34.3	R 51.7 R 69.5
1995 2000	(s) 0.0	19.3 26.4	4.8 2.3	0.7 0.7	(s) (s)	0.1 0.1	0.0 0.1	5.6 3.2	0.0 0.0	0.4 0.6	0.4 0.5	(s) (s)	18.8 24.4	44.5 55.1	R 41.2 R 49.4	R 85.7 R 104.5
2005	(s)	27.7	2.9	1.2	(s)	0.1	0.0	4.1	0.0	0.3	0.7	(s)	29.1	61.9	R 53 8	R 115 7
2006 2007	(s) (s)	29.1 29.2	3.0 1.8	0.9 1.0	(s) (s)	0.1 0.1	0.0 (s)	4.1 2.9	0.0 0.0	0.3 0.3	0.7 0.6	(s) R 0.1	30.6 31.9	64.8 R 65.0	R 55.1 R 53.0	R 119.8 R 118.0
2008	0.0	29.9	1.7	1.1	(s)	0.2	(s) 0.0	3.0	0.0	0.3	0.6	Ro1	31.7	R 65.6	R 50.9 R 44.1	H 1165
2009 2010	0.0 0.0	30.4 30.6	1.4 2.0	0.9 0.7	0.1 (s)	0.1 0.1	0.0 0.0	2.5 2.9	0.0 0.0	0.3 0.3	0.7 0.7	R 0.1 R 0.1	30.5 30.6	R 64.4 R 65.1	R 44.7	R 108.4 R 109.8
2011	0.0	31.5 30.0	2.0 1.2	0.6	(s)	0.1 0.1	0.1 0.0	2.8	0.0	0.2	0.8	R 0.2 R 0.2	30.7	R 66.3 R 65.5	R 44.6	R 111.0 R 108.5
2012 2013	0.0 0.0	32.3	1.8	1.2 1.2	(s) (s)	0.1	0.0	2.4 3.1	0.0 0.0	0.2 0.2	0.8 0.8	Ros	31.8 31.7	R 68 5	R 43.1 R 42.3	B 110 7
2014 2015	0.0 0.0	30.1 31.1	1.7 2.4	1.0 1.4	(s) (s)	0.1 4.2	0.0 0.0	2.8 8.0	0.0 0.0	0.3 0.3	0.8 0.8	R 0.3 R 0.4	32.1 32.8	R 66.3 R 73.3	R 43.1 R 39.2	R 109.5 R 112.5
2016	0.0	32.4	2.5	0.9	(s)	4.3	0.0	7.7	0.0	0.3	0.8	n 0.5	33.9	R 75.7	R 38 7	H 114.4
2017 2018	0.0 0.0	33.5 34.0	2.8 3.0	1.2 1.2	(s) (s)	4.3 4.4	0.0 0.0	8.2 8.6	0.0 0.0	0.3 0.4	0.8 0.8	R 0.6 R 0.6	38.0 41.4	R 81.3 R 85.7	R 43.0 R 47.1	R 124.3 R 132.8
2019	0.0	36.6	2.6	1.5	(s)	4.4	0.0	8.4	0.0	0.4	0.8	R 0.6 R 0.6	39.9	R 86.7 R 77.4	R 44.5 R 44.7	n 131 2
2020 2021	0.0 0.0	26.8 31.8	2.3 2.2	1.2 1.9	(s) (s)	4.4 4.5	0.0 0.0	7.9 8.5	0.0 0.0	0.4 0.4	0.8 0.8	R 0.6	40.9 41.9	R 84.0	R 44.6	R 122.1 R 128.6
2022	0.0	34.2	2.2	1.9	(s)	4.6	0.0	8.7	0.0	0.4	0.8	0.6	42.4	87.0	42.9	129.9

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Hydrocarbon gas liquids, assumed to be propane only.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Nevada

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total f,k
1960	119	3 8	575 740	445	120 131	118	268 406	1,527	(s) (s)				NA NA	793			
1965 1970	61 70	8 10	740 840	101 99	131 166	40 34	406 648	1,419 1,788					NA NA	1,059 1,635			
1970	70	10	705	107	115	44	881	1,788	(s)				NA NA				
1980	147	7	651	374	111	1	692	1.830	ō				NA	4.936			
1985 1990	110 169	6	1,497 2,906	247 446	131 170	88 8	904 1.116	2,867 4,646	0				NA (s)	3,808 6,263			
1995	255	7	3,452	197	201	1,082	1,597	6,529	0				(s)	8,496			
2000	231	11	2,824	672	111	0	901	4,508	Ö				(s)	11,239			
2005 2006	203 206	14	3,171 3,373	84 114	614 619	(s) 2	2,254 2,225	6,124	0				(s)	12,897 13,625			
2006	206	14 13	3,373	114	313	0	1,435	6,334 5,443	0				(S)	13,625			
2008	201	13	3.328	266	418	0	1,457	5,469	ŏ				2	13.820			
2009	153	11	3,586	259	397	0	1,372	5,614	0				3	13,445			
2010 2011	192 110	11 11	3,577 1,798	350 310	316 289	0	1,718 1,896	5,961 4,293	0				b 8	13,180 13,420			
2012	299 334	11	1,549 1,859	324 188	304	Ö	1,795	3,972	ő				12	13,734			
2013	334	13	1,859	188	301	0	1,645	3,993	0				14	13,759			
2014 2015	331 301	16 18	3,322 607	327 163	365 443	0	1,574 _ 1,565	5,588 2,778	0				18 20	13,733 14,059			
2016	285	18	3.024	190	445	0	H 1 275	5 034	0				25	13,515			
2017	258	19	3,723	254	448	0	R 1,695 R 1,582	R 6 120	0				27	12,590			
2018 2019	295 286	20 21	4,033 3,854	305 351	466 471	0	P 1,582 P 1,491	R 6,387 R 6,166	0				35 40	12,198 12,426			
2020	249	19	2.039	262	475	0	R 1 533	R 4.309	0			==	42	11,925			
2021	242	18	3,027	203	448	Ö	<sup>rt</sup> 1,591	R <sub>5,270</sub>	Ö				45	12,360			
2022	212	18	3,060	361	473	0	1,618	5,511	0				60	12,579			
									Trillion Bt								
1960	3.2	3.4	3.3	1.7	0.6	0.7	1.8	8.2	(s)	0.0	NA	NA	NA	2.7	17.5	R 5.5 R 7.1	R 22.9 R 29.0 R 40.5
1965 1970	1.6 1.7	8.4 11.2	4.3 4.9	0.4 0.4	0.7 0.9	0.3 0.2	2.7 4.3	8.3 10.6	(s) (s)	0.0 0.0	NA NA	NA NA	NA NA	3.6 5.6	21.9 29.1	R 11 /	R 40.5
1975	1.8	10.7	4.1	0.4	0.6	0.3	5.8	11.2	0.0	0.0	NA	NA	NA	6.7	30.4	R 13.7	R 44.1 R 74.1
1980	3.4	7.7	3.8	1.3	0.6	(s) 0.6	4.5	10.2	0.0		NA	NA	NA		38.2	H 35 8	H 74 1
1985 1990	2.6 3.9	6.6 7.7	8.7 16.9	0.8 1.5	0.7 0.9	0.6	6.0 7.4	16.8 26.8	0.0 0.0		0.0 0.0	NA 0.2	NA (s)	13.0 21.4	38.9 60.0	R 26.4 R 47.3	R 65.3 R 107.3
1995	5.8	7.7	20.1	0.7	1.0	(s) 6.8	10.5	39.2	0.0		0.0	0.4	(s)	29.0	81.5	R 63.5 R 77.7	R 145.0
2000	5.4	11.7	16.4	2.3	0.6	0.0	5.9	25.2	0.0	0.2	0.0	0.4	(s)	38.3	81.2	R 77.7	R 145.0 R 158.9 R 182.2 R 187.5 R 177.5
2005 2006	4.6 4.7	14.4 14.1	18.4 19.6	0.3 0.4	3.2 3.2	(s) (s) 0.0	14.9 14.6	36.8 37.8	0.0 0.0		(s) (s)	0.4 0.4	(s) (s)	44.0 46.5	100.7 103.9	R 81.5	n 182.2 R 187.5
2007	4.7	13.7	20.7	0.4	1.6	0.0	9.4	32.1	0.0	0.5	(s)	0.4	(s)	47.4	98.8	R 83.6 R 78.7	R 177.5
2008	4.4	13.3	19.2	0.9	2.1	0.0	9.5	31.8	0.0	0.5	(s)	0.5	(s)	47.2	97.7	H 75.5	11/32
2009 2010	3.4 4.2	11.8 11.1	20.7 20.7	0.9 1.3	2.0 1.6	0.0 0.0	9.0 11.2	32.6 34.8	0.0		(s) (s)	0.4 0.4	R (s)	45.9 45.0	94.6 96.3	R 66.2 R 65.7	H 160.8
2010	2.5	11.4	10.4	1.2	1.5	0.0	12.4	25.5	0.0	0.7	(s)	0.4	R (s)	45.8 45.8	85.7	H 66 6	H 152 3
2012	6.9	11.7	8.9	1.2	1.5	0.0	11.8	23.5	0.0	0.2	(s)	0.4	R (s)	46.9	Ragas	R 63.5 R 62.5	R 153 1
2013	7.6	13.7	10.7	0.7	1.5	0.0	10.7	23.6 32.5	0.0	0.2	(s)	0.4	R (s) R 0.1	46.9	R 92.4 R 104.2	H 62.5	R 155.0 R 167.1
2014 2015	7.3 6.8	17.0 18.4	19.1 3.5	1.3 0.6	1.8 2.2	0.0 0.0	10.2 10.2	32.5 16.5	0.0 0.0		(s) 0.0	0.4 0.4	0.1 R n 1	46.9 48.0	1104.2 R 90.4	R 62.9 R 57.3 R 52.7	1167.1 R 147.7
2016	6.4	19.1	17.4	0.7	2.2	0.0	8.9	20.3	0.0	0.2	0.0	0.4	R 0.1 R 0.1	46.1	R 101 6	R 52.7	R 154.3
2017	5.8	20.0	21.4	1.0	2.3	0.0	10.8	R 35.5	0.0		0.0	0.4	R 0.1	43.0	R 104 9	R 48.6 R 47.4	R 153.5 R 154.3
2018 2019	6.8 6.7	20.9 21.5	23.2 22.2	1.2 1.3	2.4 2.4	0.0 0.0	10.1 R 9.5	R 36.9	0.0		0.0	0.4 0.4	R 0.1 R 0.1	41.6 42.4	R 106.9 R_106.7	R 47.4	R 154.3
2020	5.9	20.0	11.7	1.0	2.4 2.3	0.0	Rag	35.4 R 24.9	0.0	0.1	0.0	0.4	R 0.1 R 0.2	40.7	R 92.2	R 44 4	R 136 6
2021	5.6	18.2	17.4	0.8	2.3	0.0	R 10.2	R 30.7	0.0	0.1	0.0	0.4	R 0.2	42.2	R 97.4	R 44.8	R 142.2
2022	4.9	19.2	17.6	1.4	2.4	0.0	10.3	31.8	0.0	0.1	0.0	0.4	0.2	42.9	99.5	43.4	142.9

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Nevada

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
1960	2	0	281	1,501	5	2,462	73	3,472	0	7,795	0			
1965	(s)	0	335	1.599	9	2.999	73 86	5.329	7	10.364	0			
1970 1975	(s) (s)	0	186 197	1,492 1,407	9 13	4,584 5,859	83 94 83	7,158 9,449	1 5	13,512 17,023	0			
1980	(5)	(s)	206	2.754	3	7.223	83	11.052	0	21.322	0			
1985 1990	Ō	(s)	105	3,146 3,294	31 22	5,715	76 85	11,414	0	20,487	Ō			
1990 1995	0	1	111 63	3,294 4,287	22 19	6,114 7,374	85 81	14,688 17,803	0	24,314 29.628	0			
2000	0	1	81	6,266	19	9,163	87	21,938	0	29,626 37,537	0			
2005	ŏ	3	138	8.545	89	8.157	73	26,507	Ö	43,509	8			
2006 2007	0	3	138 137	9,785 9,381	65 65	8,551 9,207	71	27,601	,0	46,213	8			
2007	0	3	137 147	9,381	118	9,207 7,717	74 60	28,084 26,778	(s)	46,949 42,703	8 8			
2009	0	4	118 69	7,874 7,740	73	4,886	69 62 193	26,058	0	38,936	8			
2010	0	4	69	7,618	8	12,912	193	25,750	0	46,549	8			
2011 2012	0	5	64 57	7,249 7,002	8 7	12,814 12,722	180 165	25,283	0	45,599 45,123	8 8			
2012	0	6	57 53	7,002	11	12,722	178	25,171 25,757	0	46,300	8			
2014	ŏ	ĕ	53 65 39	7,092	35 32	13,157	177	25,781	Ö	46,306	8			
2015	0	6	39	7,160	32	13,501	<sub>2</sub> 194	26,074	0	46,999	8			
2016 2017	0	6	37 37 44	7,620 8,344	49 54 33	14,381 14,914	R 191 R 185	26,729	0	R 49,008	8		 	
2018	0	5	44	8,309	33	14,445	R 176	27,452 28,088	0	R 50,986 R 51,095	8			
2019	Ö	6	46	8.883	9	14,005	H 173	27,912	Ö	H 51 028	8			
2020	0	5 5	43 45	8,864 R 9,191	4 8	8,626 11,524	R 154 R 169	23,755	0	R 41,446 R 47,891	4 5			
2021 2022	0	5	45 46	9,124	13	13,646	181	26,841 27,638	0	50,764	7			
							Tri	llion Btu						
1960	0.1	0.0	1.4	8.7	(s) (s) (s)	13.2	0.4	18.2	0.0	42.1	0.0	42.1	0.0	42.1
1965	(s) (s)	0.0 0.0	1.7 0.9	9.3 8.7	(s)	16.3 25.3	0.5 0.5	28.0 37.6	(s)	55.9 73.1 92.1	0.0 0.0	55.9 73.1	0.0 0.0	55.9 73.1
1970 1975	(s)	0.0	1.0	8.2	0.1	32.7	0.6	49.6	(s) (s)	92.1	0.0	92.1	0.0	92.1
1980	0.0	0.2 0.1	1.0	16.0 18.3	(s) 0.1	40 4	0.5 0.5	58.1 60.0	0.0 0.0	116.0	0.0	116.2	0.0	116.2 111.2
1985	0.0	0.1	0.5	18.3	0.1	31.7	0.5	60.0	0.0	111.0	0.0	111.2	0.0	111.2
1990 1995	0.0 0.0	0.8 0.9	0.6 0.3	19.2 25.0	0.1 0.1	34.0 41.8	0.5 0.5	77.2 92.6	0.0 0.0	131.5 160.3	0.0 0.0	132.7 161.2	0.0 0.0	132.7 161.2
2000	0.0	1.3	0.4	36.5	(s)	52.0	0.5 0.5 0.5	114.1	0.0	160.3 203.5	0.0	204.8	0.0	204.8
2005	0.0	2.8 3.3	0.7	49.7	0.3	46.2 48.5	0.4	137.6	0.0	235.1 249.8	(s)	238.0	0.1	238.0
2006 2007	0.0 0.0	3.3 3.5	0.7 0.7	56.8 54.3	0.3 0.3	48.5 52.2	0.4 0.4	143.1 144.4	0.0	249.8 252.3	(s)	253.2 256.0	0.1 R (s) R (s)	253.3 256.0
2007	0.0	3.6	0.7	45.5	0.5	43.8	0.4	136.7	(s) 0.0	227.6	(s)	231.3	R (S)	231.4
2009	0.0	3.8	0.6	44.7	0.3	27.7	0.4	132.6	0.0	206.3 249.2	(s)	210.1	(s)	210.2
2010	0.0	4.0	0.3	44.0	(s)	73.2	1.2	130.5	0.0	249.2	(s)	253.2	(s)	253.3
2011 2012	0.0 0.0	4.9 7.1	0.3 0.3	41.8 40.4	(s)	72.7 72.1	1.1 1.0	128.0 127.4	0.0 0.0	243.9 241.2	(s)	248.8 248.4	(s) (s)	248.9 248.4
2013	0.0	5.7	0.3	42.9	(s) (s) 0.1	72.9	11	130.3	0.0	247.5	(s)	253.3	(s)	253.3
2014	0.0	6.1 5.9	0.3 0.2	40.9	0.1	74.6	1.1 1.2 R 1.2	130.4	0.0	247.4	(s)	253.5 257.1	(s)	253.6 257.1
2015	0.0 0.0	5.9	0.2 0.2	41.3 43.9	0.1 0.2	76.5 81.5	1.2	131.9 135.1	0.0 0.0	251.2	(s)	257.1 268.1	(s)	257.1 268.1
2016 2017	0.0	6.0 5.1 5.4	0.2 0.2	43.9 48.0	0.2	81.5 84.6	'' 1.2 1.1	135.1 138.7	0.0	262.1 272.8	(s)	268.1 278.0	(s)	268.1 278.0
2018	0.0	5.4	0.2	47.9	0.1	81.9	1.1	142.0	0.0	273.1	(s)	278.5	(s)	278.6
2019 2020	0.0	5.8 5.2	0.2	51.2	(s)	79.4	1.0	141.0	0.0	272 9	(s)	278.7 226.3	(s)	278.8
2020 2021	0.0 0.0	5.2 4.8	0.2	51.0 R 53.0	(s)	48.9 65.3	0.9 1.0	120.0 135.5	0.0 0.0	221.1 R 255.8	(s)	226.3 R 260.5	(s)	226.4 R 260.6
2021	0.0	4.8 4.9	0.2 0.2	52.6	(s) (s)	77.4	1.0	135.5	0.0	271.5	(s) (s)	276.4	(s) (s)	276.5
	0.0		5.2	32.0	(3)	,,			0.0	2, 1.0	(0)	2, 0.4	(3)	2, 5.0

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
 Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Nevada

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	0	6	7	0	41	48	0	1,967		0	NA	NA	0	
1965 1970	180 544	13 25 25 28 8	8	0	51	60 93	0	1,594 1,645		0	NA	NA	0	
1970	4,435	25 25	13 58	0	80 1.256	1,314	0	1,645		0	NA NA	NA NA	0	
1980	4,064	28	58 22 54	Ö	1,256 2,431	2.453	Ö	2,372		Ŏ	NA	NA	Ŏ	
985 990	5,427 7,270	8	54	0	51	104	0	4,344 1,735		0 761	0	0	29	
990 995	7,270 7.084	24 62 121	27	0	444 26	535 54 119	0	1,735		1.554	0	0	0	
2000	7,084 8,634	121	48	Õ	72	119	Ŏ	2,429		1,554 1,371	Ō	Õ	.0	
005	8,622	148 167	38	0	5 11	43 37 25	0	1,702		1,263	0	0	245	
006 007	3,488 3,447	171	22	0	3	25	0	2,058 2,003		1,344 1,253	44	0	91 300	
800	3.878	181	28	0	0	28	0	1.751		1.383	156	0	36	
2009 2010	3,822 3,588	192 176	91 27 48 38 26 22 28 32 25	0	0	32 25	0	2,461 2,157		1,633 2,070	174 215	0	-35 1	
011	2.863	163	28	0	0	28	0	2,191 2,440		2.146	258	Ď	171	
012	2,863 2,258 2,933	163 189	41	Ö	0	41	Ó	2,440		2,347	258 438	129 251	143	
013 014	2,933 3,446	181 167	35	0	0	35 20	0	2,682 2,389		2,670 2,729	711 980	251 300	13 40	
015	1,507	210	28 41 35 29 31 22	Ö	Ö	35 29 31	ő	2,264		3,111	1,610	310	11	
016	1,192	210	22	0	0	22	0	1,789		3,353	3,061	344	45	_
017	1,097	197	19	0	0	19	0	1,813		3,292	4,077	361 312	45 38	-
018 019	1,412 1,551	200 193	21 25	0	0	21 25	0	1,881 2,242		3,462 3,909	4,653 4,744	312 329	0	
020	1,105	203	13	0	0	13 16	0	1,923		3,801	5,467	325 340	0	
2021 2022	1,490 1,577	196 187	16 19	0	0	16 19	0	1,944 1,686		3,917 3,917	6,530 8,971	340 316	0	
							Trillion Btu							
1960	0.0 4.6	6.6	(s) (s) 0.1	0.0	0.3 0.3	0.3 0.4	0.0	R 6.7	0.0	0.0	NA	NA NA	0.0 0.0	R 13.6 R 24.5
1965 1970	14 0	14.1 27.4	(S) 0.1	0.0 0.0	0.3	0.4	0.0 0.0	R 5.4 R 5.6 R 5.8	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	H 17 6
975 980	99.3 89.7	26.8	0.3 0.1 0.3	0.0	7.9	8.2	0.0 0.0	R 5.8	0.0	0.0	NA	NA	0.0 0.0 0.1	R 140. R 142. R 147.
980 985	89.7 123.6	29.5 8.6	0.1	0.0 0.0	15.3 0.3	15.4 0.6	0.0 0.0	R 8.1 R 14.8 R 5.9 R 6.6	0.0 0.0	0.0 _ 0.0	NA 0.0	NA 0.0	0.0	H 142.
990	161.3	25.1	0.5	0.0	2.8 0.2	3.3	0.0 0.0 0.0	R 5.9	0.0	R 2.6	0.0	0.0	(s)	R 198.
990 995	156.7	25.1 63.7	0.5 0.2	0.0	0.2	3.3 0.3	0.0	R 6.6	0.0	R 2.6 R 5.3 R 4.7	0.0	0.0	(s) 0.0	R 198. R 232.
000	194.0	123.9	0.3	0.0	0.5	0.7	0.0	™ 8.3 R s s	0.0	n 4.7 R 4.2	0.0	0.0	0.0	R 331.
005 006	193.2 79.5	153.1 171.8	0.2 0.1	0.0 0.0	(s) 0.1	0.3 0.2	0.0 0.0	R 8.3 R 5.8 R 7.0	0.0 0.0	R 4.3 R 4.6 R 4.3 R 4.7	0.0	0.0 0.0	0.8 0.3	R 357 R 263 R 267
007	78.2	176.6	0.1	0.0	(s)	0.1	0.0	н 68	0.0	R 4.3	R 0.2	0.0	1.0	R 267
008	84.2 80.4	188.2 198.1	0.2 0.2	0.0 0.0	0.ó 0.0	0.2 0.2	0.0 0.0	R 6.0 R 8.4	0.0	R 5.6	7 0.5 R n 6	0.0 0.0	0.1 -0.1	n 283 R 203
010	76.0	181.3	0.1	0.0	0.0	0.1	0.0	R 7.4	(s) 0.0	R 7.1	R 0.7	0.0	(s)	R 283 R 293 R 272
011	60.2	166.7	0.2	0.0	0.0	0.2	0.0	R 7.5	0.0	R 7.3	R 0.9	0.0	(s) 0.6 0.5	R 243 R 259
)12 )13	60.2 45.9 57.3	194.2 187.4	0.2 0.2 0.2	0.0 0.0	0.0 0.0	0.2 0.2	0.0 0.0	R 8.4 R 7.4 R 7.5 R 8.3 R 9.2	0.2 0.3	R 8.0 R 9.1	R 0.2 R 0.5 R 0.6 R 0.7 R 0.9 R 1.5 R 2.4 R 3.3 R 5.5	R 0.4 R 0.9	0.5 (s)	11 259 R 266
014	71.9 29.8	172.5	0.2 0.2	0.0	0.0	0.2 0.2	0.0	R 8.2 R 7.7	0.3 0.3	Rgg	R 3.3	R 1.0 R 1.1	(s) 0.1	R 266 R 266 R 273
015	29.8	218.7	0.2	0.0	0.0	0.2	0.0	H 7.7	0.3	R 10.6 P 11.4	<sup>H</sup> 5.5 <sup>R</sup> 10.4	H 1.1 H 1.2	(s) 0.2	H 273. R 273.
016 017	24.3 21.5	218.5 204.1	0.1 0.1	0.0 0.0	0.0 0.0	0.1 0.1	0.0 0.0	R 6.1 R 6.2 R 6.4	0.8 0.8	R 11.4	R 13.9	R <sub>12</sub>	0.2	R 259
018	28.1	204.1 207.3	0.1 0.1	0.0	0.0	0.1	0.0	R 6.4	0.8	R 11.2 R 11.8	R 15.9	n 1.1	0.2 0.1	R 259. R 271.
2019 2020	30.5	201.7	0.1	0.0	0.0	0.1	0.0 0.0	R 7.6 R 6.6	0.9 0.8	R 13.3 R 13.0	R 13.9 R 15.9 R 16.2 R 18.7	R 1.1	0.0	R 271. R 273.
2020 2021	21.9 30.3 31.0	211.0 203.9	0.1 0.1	0.0 0.0	0.0 0.0	0.1 0.1	0.0	R 6.6	0.8 0.7	R 13.4	R 22.3	R 1.1 R 1.2	0.0 0.0	R 278.
2022	31.0	203.9 194.9	0.1	0.0	0.0	0.1	0.0	5.8	0.7	13.4	30.6	1.1	0.0	277.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, New Hampshire

$\overline{}$						Petroleum								
						retroleum					Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet	'	-		Thousand barrels				м	illion kilowatthour	's	Thousan	d barrels
Tour	onort tono	oublo loct				modound barrolo					mon knowataroar		moudan	<u> </u>
1960	216 407	3 4	4,590 5,912	532 657	1,151	4,940 5,773	2,195 2,416	1,449 1,329	14,856	0	1,373	0	NA NA	NA NA
1965 1970	992	7	7,681	657 829	1,097 1,053	8,122	5,520	1,491	17,183 24,696	Ö	1,053 1,239	0	NA	NA
1971 1972	949 1,129	8 8	8,093 8,393	918 1,144	1,086 1,058	8,577 9,032	6,086 5,928	1,549 1,574	26,308 27,128	0	1,093 1,270	0 0	NA NA	NA NA
1973	1 055	8	8.418	1.155	960	9.317	5.363	1,498	26 713	0	1 613	0	NA	NA
1974 1975	946 982	8 8	7,756 7,194	1,161 1,436	968 916	9,218 9,373	4,346 4,611	1,401 1,164	24,850 24,694	0	1,465 1,251	0	NA NA	NA NA
1976	756 994	8	8,833	1.622	876	9.917	5,960 5,782	1,366	28,574 28,500	0	1,515 1,404	0	NA	NA
1977 1978	994 784	8 8	8,349 8,474	1,893 1,817	919 841	10,312	5,782 5,572	1,245	28,500	0	1,404	0	NA NA	NA NA
1976	1,083	8 8	5,856	1,379	774	10,531 9,787	5,572 5,781	1,251 1,037	28,486 24,615	0	1,131 1,212	0	NA NA	NA NA
1980	1.093	9	5.820	1.280	777	9.382	5.692	951	23,904 22,053	0	1.027	0	NA	NA
1981 1982	900 1,028	10 10	5,301 5,072	1,216 1,318	585 637	9,256 9,151	4,919 3,837	776 795	20.810	0	1,361 1,250	0	3	NA NA
1983 1984	1,091 1,263	10	4,516 5,308	1,325 1,207	574	9.405	3.843	804	20,468 24,061	Ō	1,353 1,255	Ö	Ō	NA
1984 1985	1,263 1,481	11 11	5,308 5,754	1,207 1,586	820 521	10,035 10,340	4,997 3,442	1,693 1,940	24,061 23,584	0	1,255 1 131	0	0	NA NA
1986	933	10	6,280	1,586 1,680	521 620	11,130	7,082	1,124	23,584 27,915	Ö	1,131 1,260	Ö	Ö	NA
1987 1988	1,176 1,229	12 13	8,445 7,590	2,056 2,084	644 725	11,846 12,320	5,499 6,351	1,441 1,128	29,931 30,198	0	1,051 1,123	0	0	NA NA
1989	1.183	14	8.191	2,084 2,470	725 759	12.285	6.176	1,482	30,198 31,362	Ö	1.341	ŏ	Ö	NA NA
1990 1991	1,186 1,315	14 14	7,236 7,159	2,122 1,652	647 468	11,778 12,135	5,235 3,998	1,656 1,103	28,673 26,515	4,081 6,788	1,881 1,585	0	0	NA NA
1992	1,311 1,428	17	7,139 7,454 7,035	1 761	378	12,111 12,494	3 746	1,197 854	26,647 27,016	7,869 9,047	1,394 1,411	0	0	NA
1993 1994	1,428 1,287	17	7,035 7,433	2,163 2,221	388 342	12,494 12,811	4,081 4,172	854 851	27,016	9,047 6,204	1,411	0	0	NA NA
1994	1,355	20 20	7,433 7,534	2,285	333	13,495	3,295	880	27,831 27,822 28,772	8,379	1,461 1,370	0	0	NA NA NA
1996	1.377	19	7.808	2.466	360	13.939	2,891	1,307	28,772	9.845	1.919	0	0	NA NA
1997 1998	1,705 1,469	21 19	7,802 8,335	2,183 2,447	408 610	14,666 15,086	3,115 3,339	1,219 1,243	29,393 31,060	7,979 8,387	1,622 1,597	0	0	NA NA
1999	1 344		8 835	2,407 2,773	820	15,659 15,952	3 347	1,000	32,066 31,596	8,676 7,922	1,411 1,427	Ö	0	NA
2000 2001	1,677 1,537	25 23	9,403 9,340	2,773 2,449	977 880	15,952 16,102	1,425 1,496	1,066 837	31 104	7,922 8,693	1,42 <i>7</i> 991	0	0	NA (s)
2002	1,531	25	10,257	2.344	839	16,737	1,713	890	32,780 36,892	9,295	1 141	Ö	Ŏ	(s) (s)
2003 2004	1,597 1,662	20 25 23 25 54 61 70	10,404 10,914	3,136 2,875	942 904	16,893 17,074	3,993 4,341	1,524 1,602	36,892 37,711	9,276 10,178	1,331	0	0	(s)
2005	1,727	70	9,785	2.891	452	16.908	3,466	1.871	37,711 35,374	9,456	1,331 1,316 1,799	ŏ	341	2 7
2006 2007	1,638 1,629	63 62 71	8,837 8,226	3,015 3,308	162 152	17,326 17,708	1,474 1,388	1,312 1,259	32,127 32,042	9,398 10,764	1,529 1,265	0	831 1,033	7
2008	1.481	71	7.980	3,876	152	17.400	924 954	1,295	31.627	9,350	1,633 1,680	10	1.068	8
2009 2010	1,208 1,247	60	7,429 6,865	3,640 3,140	338 919	17,197 17,117	954	1,031 1,094	30,589	8,817 10,910	1,680 1,478	62 76	1,298 1,738	8
2010	1,247 898	60 70	7,136	3,140	910	17,117 16,674	594 472	1,094 986	29,729 29,732 28,209	8,363	1,478	66	1,738 1,665	23
2012	898 520	72	5,830	3,554 3,921	788	16,478	264	986 929	28,209	8,189	1,605 1,247	209	1,642	16
2013 2014	616 544	54 57	6,516 7,619	4,243 5,262	739 776 658	16,759 16,724	313 300	950 996	29,520 31,677	10,927 10,168	1,427 1,381 1,270	389 412	1,698 1,695	23 16 87 92 105
2015	544 406	69	7,461	5,262 4,804	658	16,974	300 328	986	31,191	9,484	1,270	412 423	1,695 1,719	105
2016 2017	194 134	54 57 69 58 52 50 54 52	6,996 7,671	4,234 4,010	670 654	17,049 17,126	232 243	R 856 R 1,229 R 798	28,209 29,520 31,677 31,191 R 30,037 R 30,933 R 31,666 31,119 R 27,833 R 28,931	10,761 9,991	1,145 1,413	432 412	1,730 1,752	176 204
2018	294	50	8.201	4.424	626	17,252	365 223	R 798	R 31,666	10,062	1,413 1,355 1,462	407	1.766	113
2019	159 58	54	7,968	4,335 3,930	669 545	17,244	223 143	R 681 R 773	31,119 B 07,000	10,907	1,462 1,228	433 525	1,788	88
2020 2021	58 123	52 58	7,752 R 7,411	3,930 3,929	620	14,690 15,984	223	H 764	R 28.931	9,865 9,856	1,228 1,025	525 504	1,535 1,681	113 88 96 8 73
2022	123 147	58 58	7,773	4,464	767	16,136	394	758	30,291	10,922	1,201	504 482	1,703	62

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

distillate fuel oil. Excludes biofuels product supplied.

Chydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes herosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New Hampshire (trillion Btu)

					Fossi	fuels						Fossil fuels (as commingled)	
		Natural gas	Distillate			Petroleum Motor					Natural gas	(as commingied)  Distillate	Motor
Year	Coal	excluding supplemental gaseous fuels <sup>a</sup>	fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	including supplemental gaseous fuels <sup>a</sup>	fuel oil including biofuels <sup>a</sup>	gasoline including fuel ethanol <sup>a</sup>
1960	5.4	3.0	26.7	2.0	6.2	25.9	13.8	8.7	83.4	91.7	3.0	26.7	25.9
1965 1970	11.2 27.1	4.1 6.8	34.4 44.7	2.5 3.1	5.9 5.7	30.3 42.7	15.2 34.7	7.9 9.0	96.3 139.9	111.6 173.8	4.1 6.8	34.4 44.7	30.3 42.7
1971	25.5	7.7	47.1	3.5	5.8	45.1	38.3	9.4	149.1	182.3	7.7	47.1	45.1
1972 1973	30.6 28.3	8.0 8.1	48.9 49.0	4.3 4.3	5.7 5.2	47.4 48.9	37.3 33.7	9.6 9.3	153.2 150.5	191.8 186.9	8.0 8.1	48.9 49.0	47.4 48.9
1974	25.3 25.3	8.4	49.0 45.2	4.3	5.2 5.2	48.4	27.3	9.3 8.5	139.0	172.7	8.4	49.0 45.2	48.4
1975	26.2	7.7	41.9	5.3	5.2 4.9	49.2	29.0	7.1	137.4	171.3	7.7	41.9	49.2
1976 1977	20.3 26.5	7.9 7.6	51.4 48.6	6.0 6.9	4.7 4.9	52.1 54.2	37.5 36.3	8.3 7.5	160.0 158.5	188.2 192.6	7.9 7.6	51.4 48.6	52.1 54.2
1978	20.4	8.2	49.4	6.7	4.5	55.3	35.0	7.6	158.5	187.1	8.2 8.7	49.4	<i>55.3</i>
1979 1980	29.1 29.3	8.7 8.9	34.1 33.9	5.1	4.2 4.2	51.4 49.3	36.3 35.8	6.4	137.5	175.3 171.8	8.7 9.7	34.1 33.9	51.4 49.3
1981	24.2	9.7	30.9	4.8 4.5	4.2 3.1	49.3 48.6	30.9	5.7 4.7	133.6 122.8	156.7	10.4	30.9 30.9	49.3 48.6
1982	27.6	9.7	29.5	4.8	3.1 3.4	48.1	24.1	4.9	114.9	152.2	10.3	29.5	48.1
1983 1984	29.4 34.1	9.5 10.1	26.3 30.9	4.9 4.5	3.1 4.5	49.4 52.7	24.2 31.4	4.9 10.5	112.8 134.6	151.7 178.7	9.9 10.8	26.3 30.9	49.4 52.7
1985	39.7 25.1	10.4	33.5	5.9	2.8 3.3	54.3	21.6	11.8	130.0	180.1	10.9	33.5	54.3
1986	25.1	10.2	36.6	6.3	3.3	58.5	44.5	6.9	156.1	191.4	10.6	36.6	58.5
1987 1988	31.6 32.8	11.8 12.8	49.2 44.2	7.7 7.8	3.5 3.9	62.2 64.7	34.6 39.9	8.9 6.8	166.1 167.5	209.5 213.0	12.3 13.3	49.2 44.2	62.2 64.7
1989	31.5 31.5	13.6	47.7	9.3	4.1	64.5	38.8	9.1	173.7	218.8	14.2	47.7	64.5
1990 1991	31.5 34.8	14.3 14.1	42.2 41.7	8.0 6.3	3.6 2.6	61.9 63.7	32.9 25.1	10.6 6.9	159.0 146.3	204.8 195.2	14.5 14.2	42.2 41.7	61.9 63.7
1992	34.7	16.9	43.4	6.7	21	63.6	23.6	7.6	146.9	198.5	17.0	43 4	63.6
1993	37.5	16.9	41.0	8.1	2.2	65.2	25.7	5.2	147.3	201.7	17.1	41.0	65.2
1994 1995	33.6 35.6	19.8 20.0	43.3 43.8	8.4 8.7	1.9 1.9	66.8 70.2	26.2 20.7	5.2 5.4	151.8 150.7	205.2 206.3	20.0 20.1	43.3 43.8	66.8 70.2
1996	36.1	19.3	45.4	9.4	2.0	72.6	18.2	8.1	155.7	211.1	19.4	45.4	72.6
1997 1998	44.5 38.6	21.1 19.2	45.4 48.5	8.3 9.3	2.3 3.5	76.3 78.5	19.6 21.0	7.3 7.3	159.3 168.1	224.9 225.9	21.2 19.3	45.4 48.5	76.3 78.5
1999	35.4	20.4	51.4	9.2	4.6	81.5	21.0	6.0	173.7	229.5	20.5	51.4	81.5
2000	44.0	26.2	54.7	10.4	5.5	83.0	9.0	6.4	169.0	239.2	26.4	54.7	83.0
2001 2002	40.1 39.8	24.8 26.1	54.3 59.7	9.3 8.9	5.0 4.8	83.7 87.0	9.4 10.8	4.9 5.4	166.7 176.6	231.6 242.5	24.8 26.1	54.3 59.7	83.7 87.0
2003	41.6	56.4	60.5	12.0	5.3	87.8	25.1 27.3	9.5	200.2	298.3	56.5	60.5	87.8
2004 2005	43.4 44.2	63.8 72.9	63.5 56.9	11.0 10.9	5.1 2.6	88.7 86.6	27.3 21.8	9.9 11.6	205.5 190.4	312.8 307.5	63.9 73.0	63.5 56.9	88.7 87.8
2006	44.8	64.6	51.3	11.3	0.9	87.0	9.3	8.1	167.8	277.2	64.7	51.3	89.8
2007	44.9	64.9	47.6	12.5	0.9	87.5	8.7	7.8	165.0	274.8	64.9	47.6	91.1
2008 2009	40.2 32.8	74.0 62.0	46.1 42.8	14.8 13.9	0.9 1.9	85.1 83.0	5.8 6.0	8.3 6.5	161.0 154.1	275.3 249.0	74.0 62.0	46.1 42.9	88.8 87.5
2010	33.8	62.6	39.6	12.1	5.2	80.7	3.7	6.9	148.2	244.6	62.6	39.6	86.7
2011 2012	24.5 14.2	72.8 74.3	40.9 33.4	13.6	5.2	78.6 77.7	3.0 1.7	6.3	147.6 138.3	244.9 226.8	72.8 74.3	41.2 33.6	84.4 83.4
2012	16.8	74.3 55.6	33.4 37.1	15.1 16.3	4.5 4.2	77.7 78.9	2.0	6.0 6.0	144.5	226.6	55.6	37.6	84.8
2014	14.9	58.8	43.5	20.2	4.4	78.7	1.9	6.3	155.0	228.7	58.8	43.9	84.6
2015 2016	11.0 5.3	70.7 59.6	42.5 39.7	18.5 16.3	3.7 3.8	79.9 80.2	2.1 1.5	6.1 _ 5.3	152.8 146.7	234.5 211.7	70.7 59.6	43.0 40.3	85.8 86.2
2017	3.6	53.6	43.6	15.4	3.7	80.4	1.5	R 8.0	152.7	209.9	53.6	44.2	86.5
2018 2019	7.8	51.5 55.4	46.7 45.4	17.0 16.7	3.6 3.8	81.0 80.9	2.3 1.4	5.1 4.3	155.7 152.4	215.0 212.0	51.5 55.4	47.2 45.9	87.2 87.1
2019	4.2 1.5	53.4 53.6	44 1	15.1	3.8	68.9	0.9	4.3 4.9	137.0	192.1	53.4 53.6	44.6	87.1 74.2
2021	3.3	60.1	R 42.4	15.1	3.5	74.9	1.4	4.8	<sup>R</sup> 141.9	R 205.3	60.1	R 42.7	80.7
2022	3.9	60.1	44.5	17.1	4.3	75.5	2.5	4.8	148.6	212.6	60.1	44.8	81.5

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New Hampshire (continued) (trillion Btu)

							Renewable en	ergy							
					Bion	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 4.7	10.9	NA	NA	NA	NA	10.9	0.0	NA	NA	R 15.5	R 0.7	0.0	R 107.9
1965 1970	0.0 0.0	R 3.6 R 4.2	11.0	NA NA	NA NA	NA NA	NA NA	11.0	0.0 0.0	NA NA	NA NA	H 14.6	R 0.6 R -9.6	0.0 0.0	R 126.8 R 180.7 R 194.8
1971	0.0	R 3.7	12.3 13.3	NA	NA	NA	NA	12.3 13.3	0.0	NA	NA NA	R 17.0 R 17.3 R 19.4 R 18.4	n -4 5	0.0	R 194.8
1972	0.0 0.0	R 4.3	13.0 13.9	NA NA	NA NA	NA NA	NA NA	13.0 13.9	0.0 0.0	NA NA	NA NA	H 17.3	R -3.4 R 3.6 R 8.2	0.0 0.0	H 205 7
1973 1974	0.0	R 5.5 R 5.0	13.4	NA NA	NA NA	NA NA	NA NA	13.9	0.0	NA NA	NA NA	R 18.4	R 8.2	0.0	R 210.0 R 199.3
1975	0.0	R43	12.8	NA	NA	NA	NA	12.8	0.0	NA	NA	n 17 1	R 6.3 R 11.2 R 10.6 R 16.2 R 3.5 R 4.6 R 10.6	0.0	R 194.7 R 220.0 R 224.7 R 226.4 R 204.0
1976 1977	0.0 0.0	R 5.2 R 4.8	15.3 16.6	NA NA	NA NA	NA NA	NA NA	15.3 16.6	0.0 0.0	NA NA	NA NA	R 20.5 R 21.4	R 11.2	0.0 0.0	R 220.0
1978	0.0	Rag	19.3	NA	NA	NA	NA	19.3	0.0	NA	NA	R 23.1 R 25.1	R 16.2	0.0	R 226.4
1979 1980	0.0 0.0	R 4.1 R 3.5 R 4.6	21.0 21.7	NA NA	NA NA	NA NA	NA NA	21.0 21.7	0.0 0.0	NA NA	NA NA	H 25.1	H 3.5	0.0 0.0	H 204.0
1981	0.0	R 4.6	21.8	(s)	NA	NA	0.0	21.8	0.0	NA	NA	R 25.2 R 26.5	R 10.6	0.0	R 193.9
1982	0.0	H43	20.7	0.6	NA	NA	0.0	20.7	0.0	NA	NA	H 25 0	R 16.7 R 16.1 R 11.4	0.0	R 201.0 R 201.6 R 193.9 R 193.8 R 196.4 R 216.3 R 225.9
1983 1984	0.0 0.0	R 4.6 R 4.3	24.0 21.9	0.0 0.0	NA NA	NA NA	0.0 0.0	24.0 21.9	0.0 0.0	NA 0.0	0.0 0.0	R 28.6 R 26.2	R 11.4	0.0 0.0	R 216.3
1985	0.0	Raq	22.0	0.0	NA	NA	0.0	22.0	0.0	0.0	0.0	R 26.2 R 25.9	H 10 0	3.0	R 225.9
1986 1987	0.0 0.0	R 4.3 R 3.6	25.6 24.0	0.0 0.0	NA NA	NA NA	0.0 0.0	25.6 24.0	0.0 0.0	0.0 0.0	0.0 0.0	R 29.9 R 27.6	R 20.1 25.0 R 22.6 R 14.1 R -25.2 R -51.7	2.8 3.8	R 244.9 R 265.9 R 266.7 R 256.6 R 246.3 R 255.3 R 255.5 R 257.4
1988	0.0	Ная	25.0	0.0	NA	NA	0.0	25.0	0.0	0.0	0.0	H 28.8	R 22.6	2.5	R 266.9
1989	0.0	R 4.6	26.6	0.0	NA	NA	0.0	26.6	0.0	(s)	0.0	R 31 2	R 14.1	0.6	R 264.7
1990 1991	43.2 71.2	R 6.4 R 5.4	27.2 24.3	0.0 0.0	NA NA	NA NA	0.0 0.0	27.2 24.3	0.0 0.0	(s) (s)	0.0 0.0	R 33.7 R 29.8	R -51 7	0.1 1.8	R 246 3
1992	82.4	R 4.8	27.8	0.0	NA	NA	0.0	27.8	0.0	(s)	0.0	H 32 6		3.1	R 255.3
1993 1994	95.0 64.8	R 4.8	27.9 25.3	0.0 0.0	NA NA	NA NA	0.0 0.0	27.9 25.3	0.0 0.0	(s) (s)	0.0 0.0	R 32.7 R 30.3	R -77.6 R -46.9 R -67.2 R -81.4 R -73.2 R -74.3 R -70.0 R -53.2	3.7 4.0	H 255.5 R 257.4
1995	88.0	R 5.0 R 4.7	25.3 25.7	0.0	NA	NA	0.0	25.3	0.0	(s)	0.0 0.0 0.0	R 30.0	R -67.2	4.4	R 261.6 R 271.9
1996	103.4	R 6.5 R 5.5	27.7	0.0	NA	NA	0.0	27.7	0.0	(s)	0.0	R 34.3 R 31.3	R -81.4	4.5	R 271.9
1997 1998	83.7 88.0	R 5 4	25.7 24.3	0.0 0.0	NA NA	NA NA	0.0 0.0	25.7 24.3	0.0 0.0	(s)	0.0 0.0	H 29 8	R -74.3	5.8 6.0	R 272.5 R 275.4
1999 2000	90.7	R 4.8 R 4.9	24.4 24.0	0.0	NA	NA	0.0	24.4 24.0	(s) (s)	(s)	0.0 0.0	R 29.3 R 28.9	R -70.0	6.6	R 286.1 R 302.9
2000 2001	82.6 90.8	H 4.9 R 3.4	24.0 19.9	0.0 0.0	NA (s)	NA NA	0.0 0.0	24.0	(s) (s)	(s)	0.0 0.0	H 28.9 R 23.3	H -53.2 R -46.8	5.4 2.6	H 302.9
2002	97.1	R 3 9	17.3	0.0	(s)	NA	0.0	19.9 17.3	(s)	(s)	0.0	R 23.3 R 21.2	R -46.8 R -50.9	1.1	R 301.5 R 310.9
2003	96.7	R 4.5 R 4.5	16.3	0.0	(s)	NA	0.0	16.3	(s) (s)	(s)	0.0	R 20.9 R 26.2	R -96.0	0.5	R 320.3 R 327.9
2004 2005	106.1 98.7	R 6 1	21.7 23.2	0.0 1.2	(S)	NA NA	0.0 0.0	21.7 24.4	(S) (S)	(S) (S)	0.0 0.0	R 30 6	R -118.7	1.4 1.7	R 327.9
2006	98.1	R 5.2 R 4.3	17.9	2.9 3.6	(s)	NA	0.0	20.8	(s)	(s) 0.1	0.0 0.0 R (s) R 0.2 R 0.3 R 0.2	R 26 1	R -96.0 R -118.7 R -118.1 R -100.3 R -112.6 R -91.5 R -108.1 R -85.6 R -71.5 R -80.0 R -78.6	1.6	R 320.4 R 302.7 R 305.1
2007 2008	112.9 97.7	<sup>H</sup> 4.3 R 5.6	22.2 23.6	3.6 3.7	(s) (s)	NA NA	0.0 0.0	25.9 27.4	(s) (s)	0.1 0.1	0.0 R (s)	R 30.2 R 33.0	H -115.0 B -112.6	2.1	H 305.1 R 296.4
2009	92.2	R 5.7 R 5.0	28.3	4.5	(s)	NA	0.0	32.8	(s)	0.1	R 0.2	Raga	_R -91.5	2.9 3.5	H 292 U
2010	114.0	R 5.0 R 5.5	29.9 29.8	6.0	(s)	NA	0.0	35.9 35.7	(s)	0.1	R 0.3	R 41.3 R 41.5	R <sub>-</sub> 108.1	2.2 2.9	R 294.1 R 291.2
2011 2012	87.5 85.8	R43	29.8 30.5	5.8 5.7	0.1 0.1	0.0 0.0	0.0 (s)	35.7 36.2	(s) (s)	0.1 0.1	R 0.2	R 413	R -71.5	2.9	R 282 5
2013	114.2	R 4.9	30.5 35.2	5.7 5.9	0.5	0.0	(s) (s)	36.2 41.5	(s)	0.1 R 0.1	R 0.7 R 1.3	H 47 9	R -80.0	0.0 0.7	R 299.7
2014 2015	106.3 99.2	R 4.7 R 4.3	38.1 45.0	5.9 6.0	0.5 0.6	0.0 0.0	(s) (s)	44.4 51.5	(s) (s)	R 0.1 R 0.2	R 1.4 R 1.4	R 50.7 R 57.5	<sup>H</sup> -78.6 R -81.0	0.9 0.8	R 282.5 R 299.7 R 308.0 R 311.0
2016	112.6	R 3 9	40.7	6.0	0.9	0.0	(s)	47.7	(s)	R 0.2 R 0.4	R 1.5 R 1.4	R 53.4 R 55.7	R -76.3	0.7	R 302.0 R 311.1
2017	104.5	R 4.8	41.9	6.1	1.1	0.0	(s)	49.1	(s)	R 0.4 R 0.4	R 1.4 R 1.4	R 55.7 R 52.0	R -76.3 R -59.5 R -54.4 R -64.6	0.5	R 311.1
2018 2019	105.2 113.9	R 4.6 R 5.0	38.7 37.6	6.2 6.2	0.6 0.5	0.0 0.0	(s) (s)	45.5 44.3	(s)	H 0.5	H 1 E	R 51 2	'' -54.4 R -64.6	0.7 0.0	R 318.5 R 312.6
2020	103.1 R 102.8	R 4.2	37.6 R 26.2	5.3	0.5 0.5	0.0	(s)	R 32.1	(s)	Rne	R 1.8	R 38.7	R -47.6 R -54.0	0.0	H 286.2
2021 2022	H 102.8 113.9	R 3.5 4.1	R 26.6 27.0	5.8 5.9	0.4 0.3	0.0 0.0	(s) (s)	R 32.8 33.3	(s) (s)	R 0.7 0.9	R 1.7 1.6	R 38.8 40.0	H -54.0 -69.2	0.0 0.0	R 292.9 297.2
2022	110.9	4.1	21.0	5.9	0.3	0.0	(5)	00.0	(5)	0.9	1.0	40.0	-03.2	0.0	231.2

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, New Hampshire

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	8			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	123	3	4,488	532	1,151	4,940	794	1,449	13,353	239					1,586			
1970	17	7	7,497	829	1,053	8,122	2,982	1,491	21,974	184					3,627			
1980	13	9	5,808	1,280	771	9,382	1,344	951	19,537	155					5,994			
1990 2000	40 4	14 24	7,197 9,373	2,122 2,773	647 977	11,778 15,952	1,251 671	1,656 1,066	24,651 30,812	175 183					8,980 10,159			
2005	4	25	9,650	2,773	452	16,908	1,394	1,871	33,167	8					11,245			
2006	4	21	8,581	3,015	162	17,326	1,051	1,312	31,447	5					11,094			
2007	3	23	8,143	3,308	152	17,708	850	1,259	31,420	4					11,236			
2008	0	22	7,955	3,876	152	17,400	710	1,295	31,388	8					10,977			
2009 2010	0	22 21	7,406 6,838	3,640 3,140	338 919	17,197 17,117	672 504	1,031 1.094	30,284 29.613	9 5					10,698 10,890			
2010	0	23	7,123	3,554	910	16,674	359	986	29,606	5					10,869			
2012	0	22	5,821	3,921	788	16,478	227	929	28,164	0					10,870			
2013	0	24	6,464	4,243	739	16,759	193	950	29,349	0					11,043			
2014	0	26	7,384	5,262	776	16,724	108	996	31,250	0					10,944			
2015	0	26	7,382	4,804	658	16,974	132	966 R 856	30,916 R 29,988	0					10,999			
2016 2017	0	24 26	6,984 7,572	4,234 4,010	670 654	17,049 17,126	194 195	R 1,229	R 30,787	0					10,905 10,787			
2018	0	28	8,112	4,424	626	17,120	175	R 798	R 31,387	0					11,046			
2019	0	28	7,956	4,335	669	17,244	201	R 681	R 31,086	0					10,712			
2020	0	26	7,716	3,930	545	14,690	135	R 773	R 27,788	0					10,694			
2021	0	26	R 7,352	3,929	620	15,984	195	R 764	R 28,844	0					10,867			
2022	0	26	7,337	4,464	767	16,136	200	758	29,662	0					10,818			
									Trillion	Btu								
1960	3.0	3.0	26.1	2.0	6.2	25.9	5.0	8.7	74.0	R 0.8	10.9	NA	NA	NA	5.4	R 97.0	R 10.9	R 107.9
1970	0.4	6.8	43.7	3.1	5.7	42.7	18.7	9.0	122.8	R 0.6	12.3			NA	12.4	R 155.4	R 25.4	R 180.7
1980	0.3	9.7	33.8	4.8	4.1	49.3	8.5	5.7	106.2	R <sub>0.5</sub> R <sub>0.6</sub>	21.7			NA	20.5	R 158.0	R 43.5 R 64.4	R 201.6
1990 2000	1.0 0.1	14.5 25.6	41.9 54.5	8.0 10.4	3.6 5.5	61.9 83.0	7.9 4.2	10.6 6.4	133.8 164.0	11 0.6 R 0.6	11.9 9.3			(s) (s)	30.6 34.7	R 192.2 R 234.2	<sup>11</sup> 64.4 R 68.8	R 256.6 R 302.9
2005	0.1	25.1	56.1	10.4	2.6	87.8	8.8	11.6	177.8	R (s)	10.6			(s)	38.4	R 252.0	R 68.4	R 320.4
2006	0.1	21.6	49.8	11.3	0.9	89.8	6.6	8.1	166.5	R (s)	5.2			(s)	37.9	R 231.4	R 71.3	R 302.7
2007	0.1	23.7	47.1	12.5	0.9	91.1	5.3	7.8	164.7	(s)	5.6	0.0	(s)	0.1	38.3	R 232.5	R 72.5	R 305.1
2008	0.0	22.9	46.0	14.8	0.9	88.8	4.5	8.3	163.2	R (s)	5.9			0.1	37.5	229.7	R 66.7	R 296.4
2009	0.0	22.6	42.8	13.9	1.9	87.5	4.2	6.5	156.8	R (s)	11.0			0.1	36.5	R 227.0	R 65.1	R 292.1 R 294.2
2010 2011	0.0 0.0	22.1 24.0	39.5 41.1	12.1 13.6	5.2 5.2	86.7 84.4	3.2 2.3	6.9 6.3	153.6 152.9	R (s) (s)	12.4 13.8			0.1 0.1	37.2 37.1	225.4 227.9	R 68.8 R 63.4	R 291.3
2012	0.0	22.3	33.6	15.1	4.5	83.4	1.4	6.0	143.9	0.0	12.4		(s)	0.1	37.1	215.9	R 66.7	R 282.6
2013	0.0	25.1	37.3	16.3	4.2	84.8	1.2	6.0	149.8	0.0	15.2		(s)	R 0.1	37.7	R 227.9	R 71.8	R 299.7
2014	0.0	26.6	42.6	20.2	4.4	84.6	0.7	6.3	158.7	0.0	15.2	(s)	(s)	R 0.1	37.3	R 238.0	R 69.9	R 307.9
2015	0.0	26.8	42.5	18.5	3.7	85.8	0.8	6.1	157.5	0.0	20.5		(s)	R 0.2	37.5	R 242.5	R 68.4	R 310.9
2016	0.0	24.8	40.2	16.3	3.8	86.2	1.2	5.3 R 8.0	153.0	0.0	16.5		(s)	R 0.2 R 0.4	37.2	R 231.8	R 69.8	R 301.6
2017 2018	0.0	26.9 29.3	43.6 46.7	15.4 17.0	3.7 3.6	86.5 87.2	1.2 1.1	5.1	158.4 R 160.6	0.0	18.3 18.7		(s) (s)	R 0.4	36.8 37.7	R 240.8 R 246.7	R 69.7 R 71.6	R 310.5 R 318.4
2019	0.0	29.3	45.8	16.7	3.8	87.1	1.1	4.3	158.9	0.0	19.4		(s)	R 0.5	36.5	R 244.6	R 68.0	R 312.6
2020	0.0	26.7	44.4	15.1	3.1	74.2	0.8	4.9	142.6	0.0	R 14.1		(s)	R 0.6	36.5	R 220.5	R 65.7	R 286.2
2021	0.0	27.0	R <sub>42.4</sub>	15.1	3.5	80.7	1.2	4.8	R 147.7	0.0	R 13.7	(s)	(s)	R <sub>0.7</sub>	37.1	R 226.2	R 66.8	R 293.0
2022	0.0	27.1	42.3	17.1	4.3	81.5	1.3	4.8	151.3	0.0	15.2	(s)	(s)	0.9	36.9	231.4	65.9	297.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, New Hampshire

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL °	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	12	2	3 622	341	803	4 766				619			
1965	7	3	3,622 4,724	380	710	4,766 5,815				868			
1970	4	4	6,039 5,709	392	705	7,136				1,476			
1975	1	4	5,709	572	406	6,687				2,148			
1980	1	4	3.519	487	322	4,328				2,478			
1985	2	5	3,619	708	855	5,181				2,851			
1990	2	6	4,034	1,199	233	5,466				3,444			
1995	1 (-)		4,448	1,375	331	6,154				3,364			
2000	(s)	/	4,577	1,488	393	6,457				3,656			
2005 2006	(8)	0 7	4,795 4,237	1,802 1,697	561 434	7,158 6,368				4,495 4,401			
2007	(s)	7	4,068	2.084	297	6,449				4,493			
2008	(5)	7	3,954	2,084 2,436	140	6,531				4,394			
2009	ő	7	3 391	2,553	185	6 129				4 422			
2009 2010	ŏ	7	3,391 3,035	2,553 2,167	185 163	6,129 5,365				4,422 4,485			
2011	0	7	3.280	2.226	117	5.623				4.454			
2012	0	6	2,410 2,992	2,243 2,537	44	4,698 5,582				4,439			
2013	0	7	2,992	2,537	54	5,582				4,554			
2014	0	8	3 478	3,296	77 65	6,852 6,715				4,510			
2015	0	8	3,653 3,506	3,296 2,997 2,626	65	6,715				4,527			
2016	0	7	3,506	2,626	103	6,235				4,438			
2017	0	/	4,123	2,500 2,807 2,789	76	6,699 7,306				4,441			
2018	0	8 8	4,423 4,262	2,807	77 101	7,306 7,152				4,641			
2019	0	0 7	4,262	2,769	101	7,152				4,507			
2020 2021	0	7	R 3,345	2,433	107 76	6,650 R 5,853				4,790 4,832			
2022	0	7	3,315	2,825	67	6,206				4,808			
			,	· · · · · · · · · · · · · · · · · · ·		,	Trillion Btu			,			
1960	0.3	1.8	21.1	1.3	4.6	27.0	3.7	NA	NA	2.1	34.8	R 4.3	R 39.1
1965	0.3	2.7	21.1	1.5	4.0	33.0	3.1	NA NA	NA NA	3.0	41.9	R 5.8	R 47.7
1970	0.1	3.7	27.5 35.2	1.5	4.0	40.7	27	NA	NA	5.0	52.2	R 10.3	R 62.6
1975	(s)	3.8	33.3	2.2	2.3	37.8	2.7 3.2	NA	NA	5.0 7.3	52.1	R 10.3 R 15.0	B cz o
1980	(s)	4.4	20.5	1.9	1.8	24.2	7.4	NA	NA	8.5	44.2	H 18.0	R 62.1 R 68.1 R 75.6 R 75.6 R 82.5 R 92.0 R 86.7 R 88.5
1985	(s)	4.8	21.1	2.7	4.8	28.6	5.4	NA	NA	8.5 9.7	48.4	rt 19 8	R 68.1
1990	0.1	6.0	23.5 25.9	4.6	1.3 1.9	29.4	3.7	0.0	(s) (s)	11.8	50.8	R 24.7 R 22.9	R 75.6
1995	(s)	6.6	25.9	5.3	1.9	33.0	4.0	0.0		11.5	55.2	H 22.9	H 78.1
2000	(s)	7.7	26.6	5.7	2.2 3.2	34.6	3.0	(s) (s) (s) (s)	(s)	12.5	57.7	R 24.7 R 27.3	H 82.5
2005	(s)	8.0	27.9	6.9	3.2	38.0	3.3	(s)	(s) (s) 0.1	15.3	64.7	H 27.3	H 92.0
2006 2007	(s)	6.8 7.6	24.6 23.5	6.5	2.5 1.7	33.6 33.2	2.9 3.3	(s)	(s)	15.0 15.3	58.4 59.5	R 28.3 R 29.0 R 26.7	B 86.7
2007	(s) 0.0	7.6	23.5	8.0 9.4	0.8	33.2	3.3	(S)		15.3	59.5 58.9	R 29.0	R 85.6
2008	0.0	7.2 7.5	19.6	9.4 9.8	1.0	30.4	3.0	(8)	0.1 0.1	15.0	61.3	H 26.7	65.6 R 60.2
2010	0.0	7.0	17.5	8.3	0.9	26.8	8.3 8.9	(s) (s) (s)	0.1	15.3	_ 58.0	R 26.9 R 28.3 R 26.0 R 27.3 R 29.6	R 88.2 R 86.3
2010	0.0	7.0	18.0	8.5	0.3	20.0	8.6	(8)	0.1	15.0	R 59.2	R 26.0	R 85.2
2011 2012	0.0	7.2 6.6	18.9 13.9	8.6	0.7 0.2	28.1 22.8	8.6 7.2	(s) (s)	0.1	15.2 15.1	51.8	R 27.3	R 85.2 R 79.1 R 89.3
2013	0.0	7.4	17.2	9.7	0.3	27.3	9.4	(s)	0.1	15.5	51.8 P 59.7	R 29.6	R 89.3
2014	0.0	8.0	20.0	12.7	0.4	33.1	9.5	(s) (s)	R n 1	15.4	R 66.1	R 28.8	R 95.0
2014 2015	0.0	8.1	20.0 21.0	11.5	0.4	33.1 32.9	9.5 13.9	(s)	R 0.1 R 0.2 R 0.3	15.4 15.4	R 66.1 R 70.5	R 28.8 R 28.2 R 28.4 R 28.7 R 30.1	R 95.0 R 98.7 R 91.9 R 96.7 R 104.0 R 102.0
2016	0.0	7.1	20.2 23.7	10.1	0.6	30.9	10.2	(s) (s)	R 0.2	15.1 15.2	H 63.5	R 28.4	R 91.9
2017	0.0	7.6	23.7	9.6	0.4	33.8	11.2	(s)	R 0.3	15.2	H 68.0	R 28.7	R 96.7
2018	0.0	8.4	25.5	10.8	0.4	36.7	12.7	(s) (s)	R 0.3	15.8	R 73.9	H 30.1	H 104.0
2019	0.0	8.3	24.5	10.7	0.6	35.8	13.5	(s)	R 0.4	15.4	R 73.4	H 28.6	H 102.0
2020 2021	0.0 0.0	7.6 7.7	23.3 19.3	9.6 9.3	0.6	33.5 29.1	13.5 R 8.3 R 8.1	(s)	R 0.4 R 0.4	16.3 16.5	R 66.2 R 61.8	R 28.6 R 29.4 R 29.7	R 95.6 R 91.5
2021 2022	0.0	7.7 7.7	19.3 19.1	9.3 10.9	0.4 0.4	29.1 30.3	□ 8.1 9.8	(s) (s) (s)	0.4 0.5	16.5 16.4	<sup>1</sup> 61.8 64.8	29.7	<sup>n</sup> 91.5 94.1
2022	0.0	1.7	19.1	10.9	0.4	30.3	9.8	(8)	0.5	10.4	04.8	29.3	94.1

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, New Hampshire

						Pet	roleum			IId	Biomass						
/		Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
	Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	ı		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
	1960	8	1	376	144	30	37	18	605	NA			NA	371			
•	1965	6	1	491	161	30 26	37 43	18 26	605 747	NA			NA	468			
	1970 1975	3	2	628 593	166 242	26 15	46 52	71 56	936 959	NA NA			NA NA	699 883			
	1980	2	4	1,044	206	9	116	372	1,747	NA			NA	1,110			
	1985 1990	6 10	5 5	615 1,415	299 506	41 25	126 74	87 648	1,168 2,667	NA 0			NA (s)	1,582 2,117			
	1995	7	7	1,129	581	44 47	11	436	2,200	0			(s)	3,357			
	2000 2005	4	8 10	1,903 1,538	629 670	62	14 17	125 1,251	2,718 3,537	0			(s) (s)	3,905 4,576			
. 2	2006	4	8	1,134	690	46 39	129	409 442	2,407	0			(s)	4,563			
	2007 2008	3 0	10	1,112 961	826 1,146	39 12	47 61	356	2,467 2,536	0			(s) (s)	4,570 4,518			
	2009	0	10	1,044 981	847 863	14 13	48	326 253	2,278	0			(s)	4,441 4,462			
2	2010 2011	0	8 9	1,081	1,098	11	48 53 53 55 57 57	248	2,163 2,490	0			(s) 1	4,478			
2	2012 2013	0	8 9	779 753	1,531 1,535	3	55	160 135	2,528 2,486	0			2 4	4,478			
	2013	0	9	973	1,810	5 8	57 57	67	2,486 2,915	0			5	4,517 4,465			
	2015 2016	0	10 9	914 825	1,662 1,507	5 10	349 358	86 168	3,016 2,868	0			7 14	4,491 4,466			
. 2	2017	0	9	795	1,146	8	317	176	2,442	0			26	4,390			
	2018 2019	0	10 10	865 893	1,474 1,442	8 14	320 323	158 163	2,825 2,834	0			32 41	4,443 4,281			
- 2	2020	0	9	817	1,330 1,395	10	325 328	111	2,593 2,593 2,737	0			53	4,030			
2	2021 2022	0	9	837 819	1,395 1,539	8 7	328 338	170 174	2,737 2,877	0			73 95	4,107 4,085			
				0.0	1,000	•			,-	lion Btu				1,000			
	1960 1965	0.2	0.5 0.8	2.2	0.6	0.2	0.2 0.2	0.1 0.2	3.2	NA	0.1	NA	NA	1.3 1.6	5.3 6.6	R 2.6	R 7.8 R 9.8
	1965 1970	0.1 0.1	0.8	2.9 3.7	0.6 0.6	0.1 0.1	0.2 0.2	0.2 0.4	4.0 5.1	NA NA	0.1 0.1	NA NA	NA NA	1.6 2.4	6.6 9.9	R 2.6 R 3.1 R 4.9	H 9.8 R 14 8
	1975	0.1	2.3 2.6	3.5	0.9	0.1	0.3	0.4	5.1	NA	0.1	NA	NA	3.0	10.9	Hea	R 14.8 R 17.0
	1980 1985	0.1 0.1	4.2 5.1	6.1 3.6	0.8 1.1	0.1 0.2	0.6 0.7	2.3 0.5	9.9 6.2	NA NA	0.2 0.1	NA NA	NA NA	3.8 5.4	17.8 16.7	R 8.1 R 11.0	R 25.8 R 27.7
	1985 1990	0.2	5.1	3.6 8.2	1.9	0.1	0.4	4.1	14.8	0.0	0.4	0.0	(s)	7.2	27.7	R 15.2	R 42 9
	1995 2000	0.2 0.1	6.6 8.8	6.6 11.1	2.2	0.2 0.3	0.1 0.1	2.7 0.8	11.8 14.6	0.0 0.0	0.6 0.5	0.0 0.0	(s) (s)	11.5 13.3	30.6 37.3	R 22.9 R 26.4	R 53.4 R 63.7
2	2005	0.1	10.0	8.9	2.4 2.6	0.4	0.1	0.8 7.9	19.8	0.0	0.5	0.0	(s)	15.6	46.1	R 27 8	R 73.9
2	2006 2007	0.1 0.1	8.7 9.6	6.6 6.4	2.6 3.2	0.3 0.2	0.7 0.2	2.6 2.8	12.7 12.9	0.0 0.0	0.5 0.5	0.0 0.0	(s) (s)	15.6 15.6	37.5 38.6	R 29.3 R 29.5 R 27.5	R 66.8 R 68.1
2	2008	0.0	10.2	5.6	4.4	0.1	0.3	2.2	12.6	0.0	0.6	0.0	(s)	15.4	38.8	R 27.5	H 66.2
	2009 2010	0.0 0.0	10.3 8.7	6.0 5.7	3.3 3.3	0.1 0.1	0.2 0.3	2.0 1.6	11.7 10.9	0.0 0.0	1.2 1.2	0.0 0.0	(s) (s)	15.2 15.2	38.2 36.0	R 27.0 R 28.2	R 65.3 R 64.2
2	2011	0.0	9.2	6.2	4.2	0.1	0.3	1.6	12.3	0.0	1.1	0.0	(s)	15.3	38.0	R 26 1	R 64.1
	2012 2013	0.0 0.0	8.4 9.5	4.5 4.3	5.9 5.9	(s) (s)	0.3 0.3	1.0 0.9	11.7 11.4	0.0 0.0	1.2 1.6	0.0 0.0	(s) (s)	15.3 15.4	36.6 R 37.9	R 27.5 R 29.3	R 64.1 R 67.3
2	2014	0.0	9.7	5.6	7.0	(s) (s)	0.3	0.4	13.3	0.0	1.7	0.0	(s)	15.2	R 39.9	H 28 5	H 68.5
	2015 2016	0.0 0.0	9.9 8.8	5.3 4.8	6.4 5.8	(s) 0.1	1.8 1.8	0.5 1.1	14.0 13.5	0.0 0.0	2.5 2.3	0.0 0.0	R (s) R (s)	15.3 15.2	R 41.7 R 39.8	R 27.9 R 28.6	R 69.7 R 68.4
2	2017	0.0	9.4	4.6	4.4	(s) (s)	1.6	1.1	11.7	0.0	2.7	0.0	<sup>rt</sup> 0.1	15.0	R 38.8	H 28 4	n 67.2
	2018 2019	0.0 0.0	10.4 10.5	5.0 5.1	5.7 5.5	(s) 0.1	1.6 1.6	1.0 1.0	13.3 13.4	0.0 0.0	2.5 2.5	0.0 0.0	R 0.1 R 0.1	15.2 14.6	R 41.5 R 41.1	R 28.8 R 27.2	R 70.3 R 68.3
- 2	2020	0.0	9.3	4.7	5.1 5.4	0.1	1.6 1.7	0.7	12.2	0.0	2.4	0.0	HNO	13.7	R 37.9	H 24.8	n 62.6
2	2021 2022	0.0 0.0	9.6 9.7	4.8 4.7	5.4 5.9	(s) (s)	1.7 1.7	1.1 1.1	12.9 13.5	0.0 0.0	2.4 2.4	0.0 0.0	R 0.2 0.3	14.0 13.9	R 39.3 39.8	R 25.2 24.9	R 64.5 64.7
		0.0	· · · · · · · · · · · · · · · · · · ·		0.0	(0)				0.0		- 0.0	0.0			25	· · · ·

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, New Hampshire

					Petro	leum			Hvdro-	Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960	100 36	1	280 421	.47	66 53	727	524 486	1,644	239 170				NA	596			
1965 1970	36 9	1	421 511	114 267	53 38	1,046 2,842	486 667	2,120 4,325	170 184				NA NA				
1975	6	i	460	617	31	2,266	662	4,035	178	==			NA	1,839			
1980	10	1	558	514		923	520	2,541	155				NA				
1985 1990	40 28	3	428 517	556 402	61 55	1,024 522	966 1,315	3,035 2,812	155 175			==	NA (s)	2,974 3,418			
1995	1	5	433	312	109	1,092	424	2,369	169				(s)	2,286			
2000 2005	0	9	580 783	656 409	161 349	546 144	539 1,127	2,483 2,812	183 8	==			(s) (s)	2,597 2,174			
2005	0	6	613	618		642	735	2,968	5				(s)	2,174			
2007	Ō	6	490	390	188	408	735 824	2,301	4				(s)	2,173			
2008 2009	0	5	622 581	252 233		354 347	1,066 741	2,445 2,047	8 9				(s) (s)	2,065 1,836			
2010	0	6	472	106	181	252	792	1,802	5	==			(s)	1,942			
2011	Ō	7	428	224	187	111	738	1,690	5				(s)	1.936			
2012 2013	0	7	391 484	140 165		66 57	775 783	1,553 1,679	0				(s)	1,953 1,973			
2014	Ő	8	559	148	148	39	800	1.694	ő				i	1,969			
2015	0	8	396	129	177	46	779	1,528	0				1	1,981			
2016 2017	0	8	348 314	73 352	178 180	26	633 R 1 043	1,258 1,907	0				2	2,000 1,956			
2018	Ö	10	358	141	184	19 17	R 1,043 R 610	R 1.309	ő				7	1.963			
2019	0	10	380 388	102		39	R 466 R 569	1,171 R 1,268	0				8	1,924			
2020 2021	0	9	355	103 100		23 25	R 543	R 1,208	0				11	1,873 1,929			
2022	Ö	9	359	98		26	547	1,221	Ö				11				
									Trillion Bt	u							
1960	2.5	0.7	1.6	0.2	0.3	4.6	3.4	10.2	R 0.8	7.1	NA	NA	NA	2.0	R 23.2	R 4.1	R 27.3 R 32.0
1965 1970	0.9 0.2	0.7 0.8	2.5 3.0	0.4 1.0		6.6 17.9	3.2 4.3	12.9 26.3	R 0.6 R 0.6	7.8 9.5	NA NA	NA NA	NA NA		R 25.9 R 42.5	R 6.1 R 10.1	R 52.6
1975	0.1	1.1	27	2.2 1.8	0.2	14.2	4.2 3.3	23.5 14.3	Rne	0.6	NA	NA	NA	6.3	H 41 2	R 12 8	H 54 0
1980	0.2	1.0	3.2			5.8	3.3	14.3	R 0.5 R 0.5	14.1	NA	NA	NA		R 38.3	R 17.5	R 55.7
1985 1990	1.0 0.7	0.9 3.3	2.5 3.0	1.9 1.4		6.4 3.3	6.3 8.6	17.5 16.6	Rns	16.5 7.8	0.0 0.0	NA 0.0	NA (s)	10.1 11.7	R 46.5 R 40.6	R 20.6 R 24.5	H 65 2
1995	(s)	4.7	2.5	1.1	0.6	6.9	2.8	13.8	H06	7.0	0.0	0.0	(s)	7.8	R 33.9	R 15 6	R 49.4
2000 2005	0.0 0.0	9.0 7.0	3.4 4.6	2.2 1.4		3.4 0.9	3.4 7.4	13.3 16.1	R 0.6 R (s)	5.8 6.8	0.0 0.0	0.0	(s)	8.9 7.4	R 37.6 R 37.3	R 17.6 R 13.2	H 55 2
2005	0.0	6.1	3.6	2.1	1.9	4.0	4.8	16.1	R (s)	1.8		0.0	(s) (s)	7.4	R 31.5	n 13 7	R 45.2
2007	0.0	6.5	2.8	1.3	1.0	2.6	5.4	13.1			0.0	0.0	(s)	7.4	28.8	H 14.0	H 42 8
2008 2009	0.0 0.0	5.5 4.8	3.6 3.4	0.8 0.8		2.2 2.2	7.0 4.9	14.4 11.9	R (s) R (s)		0.0 0.0	0.0 0.0	(s) (s)	7.0 6.3	28.7 R 24.6	R 12.5 R 11.2	R 41.2 R 35.8
2010	0.0	6.2	2.7	0.6	0.7	1.6	5.2	10.8	R (S)	2.4	0.0	0.0	(s)	6.6	26.1	R 123	R 38 3
2011	0.0	7.3	2.5	0.9	0.9	0.7	4.8	9.8	(s)	4.1	0.0	0.0	(s)	6.6	27.9	R 11 3	R 39.2
2012 2013	0.0 0.0	7.2 8.1	2.3 2.8	0.5 0.6		0.4 0.4	5.1 5.1	9.2 9.8	0.0	4.0 4.2	(s) (s)	0.0 0.0	(s) (s)	6.7 6.7	27.1 28.9	R 12.0 R 12.8	R 39.1 R 41.7
2013	0.0	8.7	3.2	0.6	0.7	0.4	5.2	9.9	0.0	4.1	(s)	0.0	(s)	6.7	29.5	R 12 6	R 42.0
2015	0.0	8.6	2.3	0.5	0.9	0.3	5.0	9.0	0.0	4.1	(s)	0.0	(s)	6.8	R 28.4	R 12.3 R 12.8	H 40.8
2016 2017	0.0	8.7 9.8	2.0 1.8	0.3 1.4		0.2 0.1	4.1 6.9	7.4 11.1	0.0	4.0 4.4	(s)	0.0	(s) R (s)	6.8 6.7	27.0 32.0	H 12.8 R 12.6	R 39.8 R 44.6
2017	0.0	10.2	2.1	0.5		0.1	4.0	R 7.6	0.0	3.6	(s)	0.0	R (s)	6.7	28.2	R 127	R 40 9
2019	0.0	10.1	2.2	0.4	0.9	0.2	3.1	6.8	0.0	3.5	(s)	0.0	R /s/	6.6	R 27.0	R 122	R 39.2
2020 2021	0.0 0.0	9.6 9.4	2.2 2.0	0.4 0.4	0.9 0.9	0.1 0.2	3.7 3.6	7.4 7.1	0.0 0.0	3.4 3.2	(s) (s)	0.0 0.0	R (s) R (s)	6.4 6.6	26.9 R 26.2	R 11.5 R 11.9	R 38.4 R 38.1
2022	0.0	9.6	2.1	0.4		0.2	3.6	7.1	0.0			0.0	(s)			11.7	38.0
											(-)		(-)				

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, New Hampshire

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	2	0	18	209	(s)	1.151	74	4.837	49	6,338	0			
1965	(s) (s)	0	46	209 178		1,151 1,097	74 60	4,837 5,677	1	7,061	0			
1970 1975	(s) (s)	0	38 33 40	319	5	1,053	55 48	8,038	69 9	9,577	0			
1980	0	(s)	40	418 687	5 74	903 771	48 60	9,290 9,240	49	10,706 10,921	ő			
1985	0	(s)	24 21 22	1,061 1,232	24 15	521 647	55 61 59	10.152	0	11,837 13,706	0			
1990 1995	0	(S)	21	1,232 1,473	15 18	647 333	61 50	11,649 13,376	82 0	13,706 15,280	0			
2000	0	(s)	24	2.313	0	077	63	15,777	0	19,154	0			
2005	Ö	(s)	24 69	2,313 2,534	10	452 162 152 152 338	63 53 52 53	15,777 16,542	Ö	19,154 19,660	Ö			
2006 2007	0	(s)	46	2,597	11	162	52	16,836	0	19,703	0			
2007	0	(S)	46 46 28 47	2,471 2,417	8 42	152	53 49	17,473 17,188	0	20,203 19,876	0			
2009	ŏ	(s)	47	2,390	42 7	338	49 44	17 004	ŏ	19.831	ŏ			
2010	0	(s)	31	2,350	5	919	95	16,883	0	20,283 19,804	0			
2011 2012	0	(s)	31 29 25 22 20	2,335 2,241	5 6	910 788	95 91 82	16,883 16,433 16,241	0 2	19,804 19,385	0			
2012	0	(S)	22	2,241	6	739	87	16,241	1	19,363	0			
2014	ŏ	(s)	20	2,236 2,373	7	739 776	87 90 98	16,513 16,520	ż	19,602 19,788	ŏ			
2015	0	(s)	18	2 420	16	658	98	16 448	0	19 657	0			
2016 2017	0	(s)	18 18	2,305 2,341	29 13	670 654	91 _ 84	16,513 16,629	0	19,626 R 19,739	0			
2017	0	(S)	16 22	2,341	2	626	R 82	16,748	0	19,946	0			
2019	ŏ	(s)	22 22 18	2 421	2	669 545 620	R 82 R 78	16,736	ŏ	19,928 R 17,277	ŏ			
2020 2021	0	(s)	18	2,462 R 2,815	4	545	8 R 75	14,179	0	R 17,277	0			
2021	0	(s) (s)	20 21	7 2,815 2,845	2 1	620 767	<sup>n</sup> /5	15,472 15,607	0	R 19,047 19,357	0			
		(-)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				llion Btu		-,				
1960	(s)	0.0	0.1	1.2	(s)	6.2	0.5	25.4	0.3	33.6	0.0	33.7	0.0	33.7
1965 1970	(s)	0.0 0.0	0.2 0.2	1.0	(s) (s)	5.9 5.7	0.4 0.3	29.8 42.2	(s) 0.4	37.3	0.0 0.0	37.3 50.7	0.0 0.0	37.3 50.7
1970	(s) (s)	0.0	0.2	1.0 1.9 2.4	(S)	5.7 4.8	0.3	42.2 48.8	0.4	37.3 50.7 56.6	0.0	50.7 56.6	0.0	50.7 56.6
1980	0.0 0.0	(s)	0.2 0.1	4.0	(s) 0.3 0.1	4.1 2.8	0.4	48.5 53.3	0.3	57.8	0.0	57.9	0.0	57.9 63.0
1980 1985	0.0	(s) 0.1	0.1	4.0 6.2	0.1	2.8	0.3	53.3	0.0	57.8 62.9	0.0	63.0	0.0	63.0
1990 1995	0.0 0.0	(s)	0.1 0.1	7.2 8.6	0.1 0.1	3.6	0.4 0.4	61.2 69.6	0.5 0.0	73.0	0.0 0.0	73.0 80.6	0.0 0.0	73.0 80.6
2000	0.0	(S) (S)	0.1	13.5	0.1	1.9 5.5	0.4	82.1	0.0	80.6 101.6	0.0	101.6	0.0	101.6
2005	0.0	(s)	0.3	147	(s)	2.6	0.3	85.9	0.0	103.9	0.0	103.9	0.0	103.9
2006	0.0 0.0	(s)	0.2	15.1 14.3 14.0	(s) (s) (s) 0.2	2.6 0.9 0.9	0.3	87.3	0.0	103.9 105.6	0.0	103.9	0.0	103.9
2007	0.0	(s)	0.2	14.3	(s)	0.9 0.9	0.3	89.8	0.0	105.6 103.2	0.0	105.7	0.0	105.7
2008 2009	0.0	(S) (s)	0.1 0.2	14.0 13.8	0.2 (s)	1.9	0.3 0.3	87.8 86.5	0.0 0.0	103.2	0.0	103.3 102.9	0.0 0.0	103.3 102.9
2010	0.0 0.0	(s) 0.3	0.2 0.2	13.8 13.6	(s) (s)	1.9 5.2	0.3 0.6	86.5 85.5	0.0	102.8 105.1	0.0 0.0	102.9 105.4	0.0 0.0	102.9 105.4
2011	0.0	0.2	0.1	13.5	(s)	5.2	0.5	83.2	0.0	102 6	0.0	102.8	0.0	102.8
2012	0.0 0.0	0.1 0.1	0.1	12.9 12.9	(s) (s)	4.5 4.2	0.5 0.5	82.2 83.6	(s) (s)	100.3 101.3	0.0 0.0	100.3	0.0	100.3
2013 2014	0.0	0.1	0.1 0.1	12.9	(S)	4.2	0.5	83.6	(S)	101.3	0.0	101.4 102.5	0.0 0.0	101.4 102.5
2015	0.0	0.2 0.2 0.3	0.1 0.1	13.7 13.9 13.3 13.5 14.2	(s) 0.1	4.4 3.7	0.6	83.2	(s) 0.0	102.3 101.6 101.3	0.0	101.8	0.0	101.8
2016	0.0	0.3	0.1	13.3	0.1	3.8	R 0.6	83.5	0.0	101.3	0.0	101.6	0.0	101.6
2017	0.0	0.2 0.2	0.1	13.5	(s) (s)	3.7 3.6	0.5	84.0	0.0	101.9	0.0	102.1	0.0	102.1
2018 2019	0.0 0.0	0.2	0.1 0.1	14.2 13.9	(S) (S)	3.6	0.5 0.5	84.6 84.6	0.0 0.0	103.0 102.9	0.0 0.0	103.2 103.1	0.0 0.0	103.2 103.1
2020	0.0	0.2	0.1	14.2	(s)	3.1	0.4	71.6	0.0	89.4	0.0	89.6	0.0	89.6
2021 2022	0.0 0.0	0.3	0.1	14.2 R 16.2 16.4	(s) (s)	3.5 4.3	R 0.5 0.5	78.1	0.0	89.4 R 98.7 100.3	0.0	R 99.0 100.5	0.0 0.0	R 99.0 100.5
2022	0.0	0.1	0.1	16.4	(s)	4.3	0.5	78.8	0.0	100.3	0.0	100.5	0.0	100.5

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, New Hampshire

				Petro	oleum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	lowatthours		Total <sup>f,i</sup>
960	94	0	102	0	1.401	1,504	0	1.134		0	NA	NA	0	-
960 965 970	94 358 975	0	102 98 184 27	Ö	1,401 1,343 2,537	1,441 2,721	0	1,134 882		Ö	NA	NA	0	_
970	975	0	184	0	2,537	2,721	0	1 056		0	NA	NA	0	-
)75 )80	972 1,080	(s) 0	27	0	2,279 4,348	2,306 4,366	0	1,073 872		0	NA	NA	0	-
98U	1,080	0	18 31	0	4,348 2,332	2,363	0	975		0	NA 0	NA 0	0 893	-
100 100	1,433	0	30	0	2,332	4,022		1,706		0	0	0	37	-
985 990 995	1,146 1,346	2	39 51	0	3,983 1,768	1,819	4,081 8,379	1,201		0	Ů	0	1,276	_
000	1 673	1	30	0	754	784	7 922	1 244		0	0	0	1.585	_
005	1.723	46	135	ŏ	754 2,072	784 2,206	7,922 9,456	1,244 1,791		ŏ	ŏ	ŏ	1,585 501	-
006	1,634	41	256	0	424	680	9.398	1.524		0	0	0	477	_
007	1,625	39	84	0	538 214	622 240	10,764	1,261		Ö	Ō	0	617	-
000 005 006 007	1,673 1,723 1,634 1,625 1,481	49	30 135 256 84 25	0	214	240	9,350	1,626		0	0	10	864	-
009 010	1,208 1,247	39 49 38 39 47	23 27	0	281	305	8,817	1,671		0	0	62 76	1,031 638 854	-
010	1,247	39	27	0	89	116 126	10,910	1,472		0	0	76	638	-
111	898 520 616	47	13	0	113	126	8,363	1,600		0	0	66	854	-
012 013 014	520	50	9	0	36	45	8,189	1,247		0	0	209	0	-
113	616 544	30	52 235 79	0	120 192	171 427	10,927 10,168	1,427 1,381		0	0	389 412	216 250	
)15	544 406	73	233 70	0	192	427 275	9.484	1,270		0	0	423	233	_
116	10/	50 31 43 34 26 22 25 25	11	0	195 38	40	10,761	1,145		0	0	423	206	-
16	194 134	26	99	0	47	49 146	9,991	1,413		Ů	Ů	432 412	138	_
118	294	22	89	Õ	190	280	10,062	1 355		Õ	ő	407	203	_
)18 )19	294 159	25	89 12	Ŏ	21	280 34	10,907	1,355 1,462		Ŏ	ŏ	407 433	0	-
120	58	26	36	0	8	45	9.865	1.228		0	4	525	0	-
021	58 123 147	32 32	59 435	0	28	87	9,856 10,922	1,025 1,201		0	4	504 482	0	_
022	147	32	435	0	194	629	10,922	1,201		0	4	482	0	-
							Trillion Btu							
960 965	2.4 10.0	0.0 0.0	0.6 0.6	0.0 0.0	8.8 8.4	9.4 9.0	0.0 0.0	R 3.9 R 3.0 R 3.6 R 3.7 R 3.3 R 5.8 R 4.1	0.0 0.0	0.0 0.0	NA NA	NA	0.0 0.0	R 15 R 22
<del>)</del> 65	10.0	0.0		0.0	8.4	9.0	0.0	n 3.0	0.0	0.0	NA	NA	0.0	n 22
970 975	26.7 26.0	0.0 0.2	1.1	0.0 0.0	16.0 14.3	17.0 14.5	0.0	n 3.6	0.0	0.0	NA	NA	0.0	n 4/
9/5	26.0	0.2	0.2	0.0	14.3	14.5 27.4	0.0	H 3.7	0.0	0.0	NA	NA NA	0.0	R = 0
90U 185	29.0 38.6	0.0 0.0	0.1	0.0 0.0	27.3 14.7	14.8	0.0 0.0	H 3.0	0.0 0.0	0.0 0.0	NA 0.0	0.0	0.0 3.0	58 R 50
190	30.5	0.0	0.2	0.0	25.0	25.3	43.2	R 5.8	15.3	0.0	0.0	0.0	0.1	R 120
980 985 990 995	30.5 35.4	0.0 2.3	0.2 0.2 0.3	0.0	11.1	11.4	88.0	R 4.1	13.7	0.0 0.0	0.0	0.0	4.4	R 150
000 005 006	43.9	0.8	0.2 0.8 1.5	0.0	4.7	4.9	82.6	R 4.2	14.7	0.0	0.0	0.0	5.4	R 156
005	44.1 44.7	48.0 43.1	0.8	0.0	13.0	13.8	98.7	R 6.1	12.6	0.0	0.0	0.0	1.7	R 224
006	44.7	43.1	1.5	0.0	2.7	4.1	98.1	R 5.2	12.6	0.0	0.0	0.0	1.6	R 209
007 008	44.8 40.2	41.2 51.1	0.5 0.1	0.0	3.4	3.9 1.5	112.9	H 4.3	16.7 17.7	0.0 0.0	0.0 0.0	0.0	2.1 2.9	H 22
80	40.2	51.1	0.1	0.0	1.3	1.5	97.7	<u>n</u> 5.5	17.7	0.0	0.0	H (s)	2.9	<sup>1</sup> 210
009 010	32.8 33.8	39.4 40.5 48.8	0.1	0.0	1.8	1.9 0.7	92.2	n 5./	17.3	0.0	0.0	0.0 R (s) R 0.2 R 0.3 R 0.2	3.5 2.2	n 19
110	33.8	40.5	0.2	0.0	0.6		114.0	11 5.0 B s s	17.5	0.0	0.0	B 0.3	2.2	B 40
111	24.5	48.8 50.0	0.1	0.0	0.7	0.8	87.5 85.8	5.5 R 4 2	16.0	0.0	0.0	u.2 R o z	2.9	180 B 470
)12 )13	14.2 16.8	52.0 30.5	0.1 0.3	0.0 0.0	0.2 0.8	0.3 1.0	85.8 114.2	R 4.3	18.0 20.0	0.0 0.0	0.0 0.0	R 0.7 R 1.3 R 1.4 R 1.4 R 1.5	0.0 0.7	R 120
114	14 9	32 2	1.4	0.0	12	2.6	106.3	R 4.7	22.9	0.0	0.0	R 1 4	0.9	R 18
015	11.0 5.3	44.0	0.5	0.0	1.2	1.7	99.2	R 4.3	24.5	0.0	0.0	R 1.4	0.8	R 186
015 016	5.3	44.0 34.8	0.1	0.0	1.2	0.3	112.6	R 3.9	24.5 24.3	0.0	0.0	R 1.5	0.8 0.7	R 183
017 018	3.6	26.7 22.2	0.6 0.5	0.0	0.3 1.2	0.9	104.5	R 4.8	23.6 20.1	0.0	0.0 0.0	R 1.4 R 1.4	0.5 0.7	R 166
018	7.8	22.2	0.5	0.0	1.2	1.7	105.2	R 4.6	20.1	0.0	0.0	R 1.4	0.7	R 163
019	4.2	26.3	0.1	0.0	0.1	0.2	113.9	H 5.0	18.1	0.0	0.0	H 1.5	0.0	R 47 R 44 R 55 R 55 R 155 R 155 R 205 R 226 R 296 R 197 R 186 R 177 R 186 R 18
020 021	1.5	26.9	0.2 0.3	0.0	0.1	0.3 0.5	103.1 R 102.8	H 4.2	12.1	0.0	(s)	H 1.8	0.0	H 149
021	3.6 7.8 4.2 1.5 3.3 3.9	26.9 33.1 33.0	0.3	0.0	0.1 0.2 1.2	0.5	H 102.8	R 6.1 R 5.2 R 5.5 R 5.5 R 5.5 R 6.4.9 R 6.4.9 R 7.4.3 R 7.4.6 R 7.4.6	12.9	0.0	(s)	R 1.5 R 1.8 R 1.7 1.6	0.0	H 157
)22	3.9	33.0	2.5	0.0	1.2	3.7	113.9	4.1	11.8	0.0	(s)	1.6	0.0	172

a Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, New Jersey

1980   6,424   139   46,051   3,213   2,125   48,706   42,854   22,984   185,934   0   -45   0   0   1965   9,034   210   53,611   4,268   5,280   55,149   42,900   26,074   187,284   0   -31   0   0   1971   3,730   327   64,551   6,834   6,712   68,308   75,446   24,236   246,087   3,825   -309   0   1971   3,730   327   64,551   6,834   6,712   68,308   75,446   24,236   246,087   3,825   -309   0   1971   2,799   321   71,884   7,961   8,152   74,054   80,262   26,934   269,616   4,356   -217   0   1973   2,609   302   74,951   8,110   81,46   75,830   79,176   28,227   274,440   3,565   -333   0   1974   3,779   275   86,360   7,848   7,088   75,512   63,532   25,330   247,642   3,673   -282   0   1973   2,277   2,244   3,673   -282   0   1973   2,277   2,244   3,673   -282   0   1973   2,277   2,244   3,673   -282   0   1973   2,277   2,244   3,673   -282   0   1973   2,273   2,244   3,673   -282   0   1973   2,273   2,244   3,673   -282   0   1973   2,273   2,244   3,673   -282   0   1973   2,273   2,244   3,443   2,244   3,443   2,244   3,443   2,244   3,443   3,444	
Thousand short form	
Thousand barrels	Biodiesel
1960   6,424   139   46,051   3,213   2,125   48,706   42,864   22,994   165,934   0   45   0   1965   9,034   210   53,611   4,268   5,280   55,149   42,900   26,074   187,284   0   -31   0   0   1971   3,730   327   64,551   6,834   6,712   68,308   75,446   24,236   246,087   3,825   -309   0   1971   3,730   327   64,551   6,834   6,712   68,308   75,446   24,236   246,087   3,825   -309   0   1972   1,279   321   71,884   7,961   8,522   74,054   80,622   26,934   269,616   4,356   -217   0   1973   2,609   302   74,951   8,110   8,146   75,830   79,176   28,227   274,440   3,585   -333   0   1974   3,379   275   68,360   7,840   7,068   75,512   63,532   25,330   247,642   3,673   -282   0   1975   2,397   244   59,630   7,328   6,267   77,617   49,463   23,633   223,399   3,146   272   0   1977   2,746   247   59,302   7,940   8,420   77,535   59,682   27,009   239,887   6,599   167   0   1978   2,237   261   50,687   7,913   8,498   7,849   80,604   56,167   28,361   239,820   6,699   167   0   1979   2,273   261   50,687   7,913   8,498   7,5640   61,030   27,538   231,307   6,611   2283   0   1981   2,899   390   50,660   6,247   18,097   72,379   37,777   19,304   20,508   14,098   22,273   261   50,687   7,913   8,498   7,5640   61,030   27,538   231,307   6,611   2283   0   1981   2,899   390   50,660   6,247   18,097   72,379   37,777   19,304   20,508   11,675   231   0   1982   2,986   376   45,479   6,257   31,087   77,657   2,582   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,283   2,	sand barrels
1966   9,034   210   53,611   4,268   5,280   55,149   42,900   26,074   187,284   0   -31   0     1970   4,946   323   63,391   6,748   6,705   66,231   80,770   25,482   249,328   3,454   -403   0     1971   3,730   327   64,551   6,834   6,712   66,308   75,446   24,236   246,087   3,825   -309   0     1973   2,609   302   74,951   8,110   8,146   75,830   79,176   28,227   274,440   3,585   -333   0     1974   3,379   275   66,360   7,840   7,068   75,512   63,552   25,330   247,642   3,673   -262   0     1975   2,397   244   59,630   7,328   6,267   77,617   49,463   23,633   223,939   3,146   -272   0     1976   2,717   322   61,119   7,668   6,787   79,469   57,772   24,462   237,278   3,855   -245   0     1977   2,746   247   59,302   7,940   8,420   77,535   59,682   27,009   239,887   6,959   -167   0     1978   2,237   229   56,682   8,149   7,849   8,488   75,640   61,03   27,538   231,308   6,627   22,234   24,462   23,473   24,474   24,	sand barreis
1973	A NA
1973	A NA A NA
1973	A NA
1976   2,717   322   61,119   7,668   6,787   79,469   57,772   24,462   237,278   3,855   -245   0     1977   2,746   247   59,302   7,940   8,420   77,535   59,682   27,009   239,887   6,959   -167   0     1978   2,337   229   56,692   8,149   7,849   80,604   58,167   28,361   239,820   8,169   -173   0     1980   2,634   340   52,854   7,383   8,761   72,740   53,617   24,623   219,998   7,627   -282   0     1981   2,889   390   50,660   6,243   18,097   72,379   37,777   19,303   205,085   11,675   -231   0     1982   2,986   376   45,479   6,257   34,169   73,334   33,415   19,004   211,688   14,039   -222   0     1984   3,196   418   44,489   8,766   42,383   77,257   29,652   24,840   227,327   5,610   -246   0     1985   3,943   379   43,747   7,184   43,910   75,405   23,986   19,110   213,342   17,770   -244   0     1986   2,961   353   48,556   6,405   39,197   80,682   30,986   20,502   226,338   14,770   -244   0     1987   3,434   421   48,995   7,721   43,323   81,324   25,218   21,769   227,749   22,697   -309   0     1989   3,545   471   48,137   6,336   44,140   81,405   22,642   22,461   225,120   23,032   -244   0     1991   2,326   497   36,878   6,066   43,733   76,048   21,674   24,280   194,694   24,393   77,257   29,652   23,486   24,480   227,327   5,610   -246   0     1993   2,364   644   35,394   3,722   48,161   70,463   12,674   24,280   194,694   24,393   10     1999   3,405   7,16   36,499   7,569   36,343   41,790   41,890   41,	A NA A NA
1976   2,717   322   61,119   7,668   6,787   79,469   57,772   24,462   237,278   3,855   -245   0     1977   2,746   247   59,302   7,940   8,420   77,535   59,682   27,009   239,887   6,959   -167   0     1978   2,337   229   56,692   8,149   7,849   80,604   58,167   28,361   239,820   8,169   -173   0     1980   2,634   340   52,854   7,383   8,761   72,740   53,617   24,623   219,998   7,627   -282   0     1981   2,889   390   50,660   6,243   18,097   72,379   37,777   19,303   205,085   11,675   -231   0     1982   2,986   376   45,479   6,257   34,169   73,334   33,415   19,004   211,688   14,039   -222   0     1984   3,196   418   44,489   8,766   42,383   77,257   29,652   24,840   227,327   5,610   -246   0     1985   3,943   379   43,747   7,184   43,910   75,405   23,986   19,110   213,342   17,770   -244   0     1986   2,961   353   48,556   6,405   39,197   80,682   30,986   20,502   226,338   14,770   -244   0     1987   3,434   421   48,995   7,721   43,323   81,324   25,218   21,769   227,749   22,697   -309   0     1989   3,545   471   48,137   6,336   44,140   81,405   22,642   22,461   225,120   23,032   -244   0     1991   2,326   497   36,878   6,066   43,733   76,048   21,674   24,280   194,694   24,393   77,257   29,652   23,486   24,480   227,327   5,610   -246   0     1993   2,364   644   35,394   3,722   48,161   70,463   12,674   24,280   194,694   24,393   10     1999   3,405   7,16   36,499   7,569   36,343   41,790   41,890   41,	A NA
1978	A NA
1978	A NA A NA
1980	A NA
1987 3,494 421 46,995 7,761 43,323 61,924 23,216 21,769 227,749 22,697 -309 0 1988 3,085 414 50,764 7,480 40,820 81,081 23,318 22,015 225,479 23,890 -219 0 1989 3,545 471 48,137 6,336 44,140 81,405 22,642 22,461 225,120 23,032 -244 0 1990 3,029 446 38,999 4,295 46,377 78,343 15,194 19,140 202,348 23,770 31 0 1991 2,326 497 36,878 6,066 43,733 79,704 17,588 18,651 202,621 24,807 22 0 1992 2,348 624 37,333 6,594 46,133 76,633 15,791 19,822 202,307 21,595 22 0 1992 2,346 644 35,394 3,722 48,161 70,463 12,674 24,280 194,694 24,932 19 0 1994 2,453 687 39,502 3,827 48,376 81,556 13,442 23,263 209,966 22,129 15 0 1995 3,015 697 34,080 4,062 50,059 82,325 12,526 23,466 206,517 16,806 11 0 1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,750 88,850 9,165 28,482 204,791 13,908 18 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,893 29,989 210,526 28,971 17 0 2000 4,395 60 37,004 4,965 60 37,004 6,901 36,791 41,792 2000 4,395 601 36,449 7,569 36,443 91,783 8,393 29,989 210,526 28,971 17 0 2000 4,395 605 37,004 6,901 36,791 41,792 36,601 36,791 41,792 36,601 36,791 41,792 30,601 30,791 31,992 31,791 31,993 31,993 31,998 31,998 31,998 31,999 31,495 31,492 31,49	A NA
1987 3,434 421 46,395 7,721 43,323 61,324 23,216 21,769 227,749 22,697 -309 0 1989 3,505 414 50,764 7,480 40,820 81,081 23,318 22,015 225,479 23,890 -219 0 1989 3,545 471 48,137 6,336 44,140 81,405 22,642 22,461 225,120 23,032 -244 0 1990 3,029 446 38,999 4,295 46,377 78,343 15,194 19,140 202,348 23,770 31 0 1991 2,326 497 36,878 6,066 43,733 79,704 17,588 18,651 202,621 24,807 22 0 1992 2,348 624 37,333 6,594 46,133 76,633 15,791 19,822 202,307 21,595 22 0 1992 2,346 644 35,394 3,722 48,161 70,463 12,674 24,280 194,694 24,932 19 0 1994 2,453 687 39,502 3,827 48,376 81,556 13,442 23,263 209,966 22,129 15 0 1995 3,015 697 34,080 4,062 50,059 82,325 12,526 23,466 206,517 16,806 11 0 1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,750 48,850 9,165 28,482 204,791 13,908 18 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,893 29,989 210,526 28,971 17 0 2000 4,395 606 37,034 6,601 36,791 41,792 66,201 47,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,793 67,7	A NA 5 NA
1987 3,434 421 46,395 7,721 43,323 61,324 23,216 21,769 227,749 22,697 -309 0 1989 3,505 414 50,764 7,480 40,820 81,081 23,318 22,015 225,479 23,890 -219 0 1989 3,545 471 48,137 6,336 44,140 81,405 22,642 22,461 225,120 23,032 -244 0 1990 3,029 446 38,999 4,295 46,377 78,343 15,194 19,140 202,348 23,770 31 0 1991 2,326 497 36,878 6,066 43,733 79,704 17,588 18,651 202,621 24,807 22 0 1992 2,348 624 37,333 6,594 46,133 76,633 15,791 19,822 202,307 21,595 22 0 1992 2,346 644 35,394 3,722 48,161 70,463 12,674 24,280 194,694 24,932 19 0 1994 2,453 687 39,502 3,827 48,376 81,556 13,442 23,263 209,966 22,129 15 0 1995 3,015 697 34,080 4,062 50,059 82,325 12,526 23,466 206,517 16,806 11 0 1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,750 48,850 9,165 28,482 204,791 13,908 18 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,893 29,989 210,526 28,971 17 0 2000 4,395 606 37,034 6,601 36,791 41,792 66,201 47,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,793 67,7	0 NA
1987 3,434 421 46,395 7,721 43,323 61,324 23,216 21,769 227,749 22,697 -309 0 1989 3,505 414 50,764 7,480 40,820 81,081 23,318 22,015 225,479 23,890 -219 0 1989 3,545 471 48,137 6,336 44,140 81,405 22,642 22,461 225,120 23,032 -244 0 1990 3,029 446 38,999 4,295 46,377 78,343 15,194 19,140 202,348 23,770 31 0 1991 2,326 497 36,878 6,066 43,733 79,704 17,588 18,651 202,621 24,807 22 0 1992 2,348 624 37,333 6,594 46,133 76,633 15,791 19,822 202,307 21,595 22 0 1992 2,346 644 35,394 3,722 48,161 70,463 12,674 24,280 194,694 24,932 19 0 1994 2,453 687 39,502 3,827 48,376 81,556 13,442 23,263 209,966 22,129 15 0 1995 3,015 697 34,080 4,062 50,059 82,325 12,526 23,466 206,517 16,806 11 0 1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,750 48,850 9,165 28,482 204,791 13,908 18 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,893 29,989 210,526 28,971 17 0 2000 4,395 606 37,034 6,601 36,791 41,792 66,201 47,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,792 67,791 41,793 67,7	0 NA
1987 3,494 421 46,995 7,761 43,323 61,924 23,216 21,769 227,749 22,697 -309 0 1988 3,085 414 50,764 7,480 40,820 81,081 23,318 22,015 225,479 23,890 -219 0 1989 3,545 471 48,137 6,336 44,140 81,405 22,642 22,461 225,120 23,032 -244 0 1990 3,029 446 38,999 4,295 46,377 78,343 15,194 19,140 202,348 23,770 31 0 1991 2,326 497 36,878 6,066 43,733 79,704 17,588 18,651 202,621 24,807 22 0 1992 2,348 624 37,333 6,594 46,133 76,633 15,791 19,822 202,307 21,595 22 0 1992 2,346 644 35,394 3,722 48,161 70,463 12,674 24,280 194,694 24,932 19 0 1994 2,453 687 39,502 3,827 48,376 81,556 13,442 23,263 209,966 22,129 15 0 1995 3,015 697 34,080 4,062 50,059 82,325 12,526 23,466 206,517 16,806 11 0 1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,750 88,850 9,165 28,482 204,791 13,908 18 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,893 29,989 210,526 28,971 17 0 2000 4,395 60 37,004 4,965 60 37,004 6,901 36,791 41,792 2000 4,395 601 36,449 7,569 36,443 91,783 8,393 29,989 210,526 28,971 17 0 2000 4,395 605 37,004 6,901 36,791 41,792 36,601 36,791 41,792 36,601 36,791 41,792 30,601 30,791 31,992 31,791 31,993 31,993 31,998 31,998 31,998 31,999 31,495 31,492 31,49	0 NA 0 NA
1987 3,494 421 46,995 7,761 43,323 61,924 23,216 21,769 227,749 22,697 -309 0 1988 3,085 414 50,764 7,480 40,820 81,081 23,318 22,015 225,479 23,890 -219 0 1989 3,545 471 48,137 6,336 44,140 81,405 22,642 22,461 225,120 23,032 -244 0 1990 3,029 446 38,999 4,295 46,377 78,343 15,194 19,140 202,348 23,770 31 0 1991 2,326 497 36,878 6,066 43,733 79,704 17,588 18,651 202,621 24,807 22 0 1992 2,348 624 37,333 6,594 46,133 76,633 15,791 19,822 202,307 21,595 22 0 1992 2,346 644 35,394 3,722 48,161 70,463 12,674 24,280 194,694 24,932 19 0 1994 2,453 687 39,502 3,827 48,376 81,556 13,442 23,263 209,966 22,129 15 0 1995 3,015 697 34,080 4,062 50,059 82,325 12,526 23,466 206,517 16,806 11 0 1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,750 88,850 9,165 28,482 204,791 13,908 18 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,893 29,989 210,526 28,971 17 0 2000 4,395 60 37,004 4,965 60 37,004 6,901 36,791 41,792 2000 4,395 601 36,449 7,569 36,443 91,783 8,393 29,989 210,526 28,971 17 0 2000 4,395 605 37,004 6,901 36,791 41,792 36,601 36,791 41,792 36,601 36,791 41,792 30,601 30,791 31,992 31,791 31,993 31,993 31,998 31,998 31,998 31,999 31,495 31,492 31,49	0 NA
1990     3,029     446     38,999     4,295     46,377     78,343     15,194     19,140     202,348     23,770     31     0       1991     2,326     497     36,878     6,066     43,733     79,704     17,588     18,651     202,621     24,807     22     0       1992     2,348     624     37,333     6,594     46,133     76,633     15,791     19,822     202,307     21,595     22     0       1993     2,364     644     35,394     3,722     48,161     70,463     12,674     24,280     194,694     24,932     19     0       1994     2,453     687     39,502     3,827     48,376     81,556     13,442     23,263     209,966     22,129     15     0       1995     3,015     697     34,080     4,062     50,059     82,325     12,526     23,466     206,517     16,806     11     0       1996     3,323     701     35,370     3,813     43,002     86,044     9,709     24,335     202,274     11,028     19     0       1997     3,841     717     35,271     4,268     38,754     88,850     9,165     28,482     204,791     13,908     <	0 NA
1990     3,029     446     38,999     4,295     46,377     78,343     15,194     19,140     202,348     23,770     31     0       1991     2,326     497     36,878     6,066     43,733     79,704     17,588     18,651     202,621     24,807     22     0       1992     2,348     624     37,333     6,594     46,133     76,633     15,791     19,822     202,307     21,595     22     0       1993     2,364     644     35,394     3,722     48,161     70,463     12,674     24,280     194,694     24,932     19     0       1994     2,453     687     39,502     3,827     48,376     81,556     13,442     23,263     209,966     22,129     15     0       1995     3,015     697     34,080     4,062     50,059     82,325     12,526     23,466     206,517     16,806     11     0       1996     3,323     701     35,370     3,813     43,002     86,044     9,709     24,335     202,274     11,028     19     0       1997     3,841     717     35,271     4,268     38,754     88,850     9,165     28,482     204,791     13,908     <	0 NA 0 NA
1992     2,348     624     37,333     6,594     46,133     76,633     15,791     19,822     202,307     21,595     22     0       1993     2,364     644     35,394     3,722     48,161     70,463     12,674     24,280     194,694     24,932     19     0       1994     2,453     687     39,502     3,827     48,376     81,556     13,442     23,263     209,966     22,129     15     0       1995     3,015     697     34,080     4,062     50,059     82,325     12,526     23,466     206,517     16,806     11     0       1996     3,323     701     35,370     3,813     43,002     86,044     9,709     24,335     202,274     11,028     19     0       1997     3,841     717     35,271     4,268     38,754     88,850     9,165     28,482     204,791     13,908     18     0       1998     3,299     680     34,192     3,717     37,103     91,734     8,669     26,073     201,489     27,132     21     0       1999     3,405     716     36,449     7,569     36,343     91,783     8,393     29,989     210,526     28,971 <td< td=""><td>0 NA</td></td<>	0 NA
1992     2,348     624     37,333     6,594     46,133     76,633     15,791     19,822     202,307     21,595     22     0       1993     2,364     644     35,394     3,722     48,161     70,463     12,674     24,280     194,694     24,932     19     0       1994     2,453     687     39,502     3,827     48,376     81,556     13,442     23,263     209,966     22,129     15     0       1995     3,015     697     34,080     4,062     50,059     82,325     12,526     23,466     206,517     16,806     11     0       1996     3,323     701     35,370     3,813     43,002     86,044     9,709     24,335     202,274     11,028     19     0       1997     3,841     717     35,271     4,268     38,754     88,850     9,165     28,482     204,791     13,908     18     0       1998     3,299     680     34,192     3,717     37,103     91,734     8,669     26,073     201,489     27,132     21     0       1999     3,405     716     36,449     7,569     36,343     91,783     8,393     29,989     210,526     28,971 <td< td=""><td>0 NA</td></td<>	0 NA
1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,754 88,850 9,165 28,482 204,791 13,908 18 0 1998 3,299 680 34,192 3,717 37,103 91,734 8,669 26,073 201,489 27,132 21 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,393 29,989 210,526 28,971 17 0 2000 4,395 605 37,024 6,801 36,781 94,729 14,023 26,224 215,601 28,578 14	0 NA 7 NA
1996 3,323 /01 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,754 88,850 9,165 28,482 204,791 13,908 18 0 1998 3,299 680 34,192 3,717 37,103 91,734 8,669 26,073 201,489 27,132 21 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,393 29,989 210,526 28,971 17 0 2000 4,395 605 37,034 6,801 36,781 94,729 14,023 26,224 215,601 28,971 14 0	5 NA
1996 3,323 701 35,370 3,813 43,002 86,044 9,709 24,335 202,274 11,028 19 0 1997 3,841 717 35,271 4,268 38,754 88,850 9,165 28,482 204,791 13,908 18 0 1998 3,299 680 34,192 3,717 37,103 91,734 8,669 26,073 201,489 27,132 21 0 1999 3,405 716 36,449 7,569 36,343 91,783 8,393 29,989 210,526 28,971 17 0 2000 4,395 605 37,024 6,801 36,781 94,729 14,023 26,224 215,601 28,578 14	2 NA
1999 3,405 /16 36,449 /,569 36,343 91,783 8,393 29,989 210,526 28,9/1 1/ 0	6 NA
1999 3,405 /16 36,449 /,569 36,343 91,783 8,393 29,989 210,526 28,9/1 1/ 0	9 NA 9 NA
2000 4,395 605 37,034 6,801 36,781 94,729 14,032 26,224 215,601 28,578 14 0 2001 4,315 565 38,612 7,632 33,952 94,145 12,642 29,301 216,284 30,469 18 0 2002 4,079 599 35,937 7,526 28,933 96,329 15,862 28,777 213,366 30,866 12 0 2003 4,191 613 39,551 3,539 25,901 98,327 14,100 25,619 207,037 29,709 39 0 2004 4,440 621 40,318 3,045 25,038 103,782 14,054 24,308 210,544 27,082 38 0	7 NA
2001 4,315 565 38,612 7,652 33,952 94,145 12,642 29,301 216,284 30,469 18 0 2002 4,079 599 35,937 7,526 28,933 96,329 15,862 28,777 213,366 30,866 12 0 2003 4,191 613 39,551 3,539 25,901 98,327 14,100 25,619 207,037 29,709 39 0 2004 4,440 621 40,318 3,045 25,038 103,782 14,054 24,308 210,544 27,082 38 0	1 NA
2003 4,191 613 39,551 3,539 25,901 98,327 14,100 25,619 207,037 29,709 39 0 2004 4,440 621 40,318 3,045 25,038 103,782 14,054 24,308 210,544 27,082 38 0	7 1 5 2
2004 4,440 621 40,318 3,045 25,038 103,782 14,054 24,308 210,544 27,082 38 0	6 2
	6 2 4 3 8 11
2005 5,004 602 39,814 2,420 31,834 103,150 18,780 26,181 222,179 31,392 31 0 2 2006 4,642 547 36,651 1,979 33,726 103,580 16,882 23,824 216,642 32,568 35 16 7	8 11
2007 $4.672$ $619$ $39.647$ $2.758$ $36.534$ $106.074$ $19.780$ $25.444$ $230.236$ $32.010$ $21$ $20$ $9$	0 31 7 42 9 36 1 38 0 31
2008 4,165 615 35,696 2,455 35,281 103,704 27,269 20,593 224,998 32,195 26 21 7 2009 2,541 621 29,485 2,218 34,420 100,913 11,103 17,146 195,286 34,328 32 21 9	9 36
2009 2,541 621 29,485 2,218 34,420 100,913 11,103 17,146 195,286 34,328 32 21 9 2010 3,082 654 29,942 7,185 18,519 99,974 8,060 15,317 178,997 32,771 18 13 10	1 38
2010 3,082 654 29,942 7,185 18,519 99,974 8,060 15,317 178,997 32,771 18 13 10 2011 1,976 661 33,070 7,228 18,812 98,095 7,091 16,628 180,923 33,606 24 11 10 2012 1,007 652 28,369 6,043 18,406 95,859 6,737 16,521 171,935 33,110 11 12 5	5 105 7 80
2012 1,007 652 28,369 6,043 18,406 95,859 6,737 16,521 171,935 33,110 11 12 9	7 80
2013 1,017 682 28,763 6,224 19,447 96,167 5,706 15,356 171,664 33,380 18 11 9 2014 1,214 773 31,289 6,422 18,455 96,722 1,866 13,862 168,617 31,507 17 23 10	2 385
	3 418
2016 667 763 30,563 6,095 19,990 99,948 3,984 R 14,109 R 174,688 29,885 9 21 10 2017 631 707 27,565 6,008 21,120 95,371 3,247 R 15,199 R 168,512 34,033 14 22 9	2 768 6 732
2017 631 707 27,565 6,008 21,120 95,371 3,247 R15,199 R168,512 34,033 14 22 95,2018 648 770 29,546 6,184 21,448 93,290 7,677 R14,725 R172,870 31,982 36 23	ö 732
2018 648 770 29,546 6,184 21,448 93,290 7,677 814,725 8172,870 31,382 36 23 9 2019 530 761 29,126 6,165 21,720 92,762 757 815,020 8165,550 26,637 26 22 9 2020 473 653 26,323 6,092 9,854 73,693 5,741 812,743 8134,447 26,738 15 20 7	9 407 8 320
2019 530 761 29,126 6,165 21,720 92,762 757 R15,020 R165,550 26,637 26 22 9200 473 653 26,323 6,092 9,854 73,693 5,741 R12,743 R134,447 26,738 15 20 7	7 325
2014 1,214 7/3 31,289 0,422 10,433 96,722 1,060 13,062 108,617 31,307 17 23 102 1015 893 746 29,827 6,179 19,225 97,638 3,723 15,488 172,079 33,262 10 22 10 2016 667 763 30,563 6,095 19,990 99,948 3,984 R14,109 R174,688 29,885 9 21 10 2017 631 707 27,565 6,008 21,120 95,371 3,247 R15,199 R168,512 34,033 14 22 92 10 10 10 10 10 10 10 10 10 10 10 10 10	5 H 266 1 216
2022 242 121 21,144 0,031 11,400 02,030 4,210 10,001 100,002 20,013 5 22 0	1 210

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

distillate fuel oil. Excludes biofuels product supplied.

Chydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes herosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New Jersey (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
		Natural gas excluding	Distillate fuel oil			Petroleum Motor gasoline					Natural gas including	Distillate fuel oil	Motor gasoline
Year	Coal	supplemental gaseous fuels <sup>a</sup>	excluding biofuels <sup>a</sup>	HGL b	Jet fuel <sup>c</sup>	excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	supplemental gaseous fuels <sup>a</sup>	including biofuels <sup>a</sup>	including fuel ethanol <sup>a</sup>
1960	168.8	144.1	268.2	12.2	11.5	255.9	269.4	138.4	955.6	1,268.5	144.1	268.2	255.9
1965 1970	236.6 123.3	219.2 331.2	312.3 369.3	16.2 24.8	29.4 37.5	289.7 347.9	269.7 507.8	154.9 152.6	1,072.2 1,439.9	1,528.1 1,894.4	219.2 331.2	312.3 369.3	289.7 347.9
1971	91.5	335.3	376.0	25.1	37.5	358.8	474.3	145.9	1,417.7	1,844.4	335.3	376.0	358.8
1972	32.0	329.6	418.7	29.0	47.8	389.0	504.6	162.1	1,551.3	1,912.9	329.6	418.7	389.0
1973	66.1	309.7	436.6	29.4	45.7	398.3	497.8	170.6	1,578.4	1,954.3	309.7	436.6	398.3
1974	82.5	282.2	398.2	28.3	39.6	396.7	399.4	152.5	1,414.7	1,779.3	282.2	398.2	396.7
1975 1976	60.5 70.6	251.7 332.5	347.3 356.0	26.3 27.5	35.1 38.1	407.7 417.4	311.0 363.2	141.7 146.3	1,269.1	1,581.3 1,751.6	251.7 332.5	347.3 356.0	407.7 417.4
1977	70.0	255.5	345.4	28.1	47.3	407.3	375.2	161.8	1,348.5 1,365.1	1,691.7	255.5	345.4	407.3
1978	60.8	236.9	330.2	28.7	44.0	423.4	365.7	169.9	1.362.0	1.659.7	236.9	330.2	423.4
1979	59.2 68.7	269.9	295.3	28.3	47.7	397.3	383.7	164.8	1,317.1	1,646.2	269.9	295.3	397.3
1980	68.7	341.1	307.9	26.3	49.3	382.1	337.1	146.8	1,249.5	1,659.3	351.0	307.9	382.1
1981 1982	75.5 78.4	391.5 377.2	295.1 264.9	22.2 22.0	102.2 193.3	380.2 385.2	237.5 210.1	122.0 115.9	1,159.2 1,191.4	1,626.2	403.4 387.3	295.1 264.9	380.2 385.2
1983	76. <del>4</del> 91.6	407.8	229.0	22.0	209.8	305.2 407.9	167.1	141.6	1,177.5	1,647.0 1.676.8	418.0	204.9 229.0	305.2 407.9
1984	84.0	419.4	259.2	30.3	239.9	405.8	186.4	150.2	1,271.7	1,775.2	428.3	259.2	405.8
1985	103.3	375.3	254.8	25.1 22.8	248.6	396.1	150.8	116.0	1.191.4	1.670.0	389.1	254.8	396.1
1986	77.9	350.6	282.8	22.8	221.8	423.9	194.8	126.2	1,272.3	1,700.8	363.0	282.8	423.9
1987	90.5	418.2	281.9	27.6	245.2	427.2	158.5	132.8	1,273.3	1,782.0	432.4	281.9	427.2
1988 1989	81.1 94.8	409.8 468.3	295.7 280.4	26.8 22.9	231.1 249.9	425.9 427.6	146.6 142.3	133.5 135.7	1,259.6 1,258.9	1,750.5 1,822.0	425.0 483.2	295.7 280.4	425.9 427.6
1990	80.8	447.8	227.2	15.3	262.6	411.5	95.5	115.8	1,127.9	1.656.5	458.1	227.2	411.5
1991	61.9	495.1	214.8	21.4	247.0	418.7	110.6	113.2	1,125.7	1,682.6	510.2	214.8	418.7
1992	62.7	625.9	217.5	23.4	261.2	402.6	99.3	119.8	1 123 7	1.812.3	640.6	217.5	402.6
1993	63.1	651.6	206.2	13.5	272.8	367.5	79.7	150.1	1,089.7	1,804.5	667.1	206.2	367.6
1994 1995	65.1 79.9	706.0 713.1	229.9 198.3	13.9 14.8	274.2 283.8	424.9 427.4	84.5 78.8	141.7 143.8	1,169.2 1,146.9	1,940.3 1,939.9	714.1 720.7	229.9 198.3	425.2 428.4
1996	86.6	718.7	205.9	13.9	243.8	447.5	61.0	148.6	1,120.7	1,939.9	725.7	205.9	428.4 448.4
1997	99.9	735.3	205.3	15.4	219.7	461.5	57.6	175.0	1,134.5	1,969.7	742.0	205.3	462.5
1998	86.2	696.0	199.0	13.6	210.4	476.5	54.5	160.1	1.114.1	1,896.3	705.5	199.0	477.3
1999	89.0	737.6	212.1	26.9	206.1	476.8	52.8	185.3	1,160.0 1,190.3	1,986.5	743.6	212.1	477.5
2000 2001	114.7 112.2	617.9 573.0	215.5 224.7	24.2 27.1	208.5 192.5	491.9 488.6	88.2 79.5	161.9 181.0	1,190.3 1,193.4	1,923.0 1.878.7	626.5 585.8	215.5 224.7	492.7 489.7
2001	104.8	617.1	209.1	27.1 26.7	192.5	500.7	79.5 99.7	178.7	1,179.0	1,900.9	620.8	224.7 209.1	500.8
2003	106.9	635.7	230.1	13.2	146.9	510.9	88.6	156.6	1.146.4	1,888.9	636.2	230.1	511.0
2004	112.7	644.5	234.6	11.3	142.0	538.8	88.4	149.9	1,146.4 1,164.8	1,922.0	645.0	234.6	539.3
2005	125.3	625.4	231.6	9.0	180.5	525.9	118.1	160.7	1,225.8	1,976.6	625.9	231.6	535.6
2006	116.1	566.7	212.7	7.4	191.2	511.2	106.1	146.6	1,175.2	1,858.0	566.9	212.7	537.1
2007 2008	111.8 97.7	640.2 634.7	229.3 206.3	10.2 9.3	207.2 200.0	513.1 502.2	124.4 171.4	157.6 127.2	1,241.8 1,216.5	1,993.8 1.948.9	640.6 635.2	229.3 206.3	545.4 529.5
2009	59.6	638.3	169.1	8.4	195.2	481.3	69.8	106.4	1,030.2	1,728.1	638.8	170.3	513.6
2010	72.0	671.0	172.0	27.6	105.0	469.8	50.7	94.7	919.7	1.662.7	671.5	172.9	506.6
2011	49.6	677.5	188.3	27.7	106.7	461.5	44.6	102.8	931.6	1,658.7	677.9	190.8	496.7
2012	25.6 25.9	670.8	161.3	23.2 23.9	104.4	451.7 452.2	42.4	101.8	884.7 878.1	1,581.1	671.0 712.3	163.6 165.8	485.2
2013 2014	25.9 30.7	712.0 805.1	161.5 176.1	23.9 24.6	110.3 104.6	452.2 454.4	35.9 11.7	94.3 84.6	878.1 856.2	1,616.0 1,692.0	712.3 805.7	165.8 180.3	486.6 489.3
2015	22.9	778.9	167.6	23.7	109.0	458.4	23.4	95.3	877.5	1 679 3	779.3	171.9	493.8
2016	17.5	793.9	169.4	23.4	113.3	469.3	25.0	H 87 9	877.5 R 888.4	R 1 600 8	794.2	175.9	505.2
2017	16.5	734.1	153.2	23.1	119.8	447.4	20.4	R 95.5	R 859.4 R 889.2	H 1 610 0	734.1	158.7	481.9
2018	16.7	799.6	165.1	23.7	121.6	437.9	48.3	R 92.5 R 94.4	R 889.2 R 843.7	R 1,705.4 R 1,648.2	799.6	170.2	471.5
2019 2020	13.8 12.1	790.7 678.9	163.1 _ 146.7	23.7 23.4	123.2 55.9	434.7 345.1	4.8 36.1	R 80.0	R 843.7 R 687.2	R 1,648.2 R 1,378.2	790.7 678.9	167.7 _ 151.5	468.6 372.3
2020	12.6	697.0	R 154.3	23.8	80.1	383.7	25.9	R 82.1	R 749.0	R 1,458.6	697.0	R 156.3	414.1
2022	6.2	755.0	154.5	23.4	98.9	383.9	26.5	82.1	768.6	1,529.8	755.0	156.5	414.5

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New Jersey (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0	R 0.2	20.0	NA	NA	NA	NA	20.0	0.0	NA	NA	R 20.2	R -14.1 R -19.4 R -31.5 R 4.7	0.0	R 1,274.6 R 1,532.6 R 1,929.6 R 1,919.3
1965 1970	0.0 37.9	R -0.1 R -1.4	24.0 30.1	NA NA	NA NA	NA NA	NA NA	24.0 30.1	0.0 0.0	NA NA	NA NA	R 23.9 R 28.8 R 28.8	R -19.4	0.0 0.0	R 1,532.6
1971 1972	41.5 47.0	R -1.1 R -0.7	29.9 31.8	NA NA	NA NA	NA NA	NA NA	29.9 31.8	0.0 0.0	NA NA	NA NA	R 28.8 R 31.1	R 4.7	0.0 0.0	R 1,919.3
1973	39.1	H 1 1	33.7	NA	NA	NA	NA	33.7	0.0	NA	NA	R 32.6	R 38.1 R 45.1 R 70.8	0.0	R 2,029.1 R 2,071.1
1974 1975	41.0 34.6	R -1.0 R -0.9	36.0 33.8	NA NA	NA NA	NA NA	NA NA	36.0 33.8	0.0 0.0	NA NA	NA NA	R 32.6 R 35.1 R 32.9	H 70.8 E 182.6	0.0 0.0	H 1,926.2 R 1 831 5
1976	42.6 74.9	R -0.8 R -0.6	37.6	NA	NA	NA	NA	37.6	0.0	NA	NA	R 36.8 R 39.7	R 190.9 R 161.9	0.0	R 2,021.9 R 1,968.2 R 1,973.4 R 1,986.4
1977 1978	74.9 89.4	н -0.6 В -0.6	40.3 43.5	NA NA	NA NA	NA NA	NA NA	40.3 43.5	0.0 0.0	NA NA	NA NA	H 39.7 R 42 q	H 161.9 R 181.5	0.0 0.0	<sup>H</sup> 1,968.2 R 1 973 4
1979	71.9	R -0.6 R -1.0	46.0	NA	NA	NA	NA	46.0	0.0	NA	NA	R 42.9 R 45.1	R 223.1	0.0	R 1,986.4
1980 1981	83.2 128.8	R -1.0 R -0.8	51.3 56.8	NA (s)	NA NA	NA NA	NA 0.0	51.3 56.8	0.0 0.0	NA NA	NA NA	R 50.4 R 56.1	R 202.8 R 171 7	0.0 0.0	R 1,995.7 R 1,982.7
1982	155.5	H -0 8	51.5	(s) 0.0	NA	NA	0.0	51.5	0.0	NA	NA	H 50 8	R 181.5 R 223.1 R 202.8 R 171.7 R 159.9 R 222.7 R 245.1 R 179.8	0.0	R 2,013.1 R 2,030.5 R 2,131.6 R 2,089.9
1983 1984	69.0 60.8	R -0.8 R -0.8	62.7 51.4	0.0 0.0	NA NA	NA NA	0.0 0.0	62.7 51.4	0.0 0.0	NA 0.0	0.0 0.0 0.0	R 61.9 R 50.5 R 51.4	R 222.7 R 245.1	0.0 0.0	R 2,030.5
1985	188.8	H_na	52.2	0.0	NA	NA	0.0	52.2	0.0	0.0	0.0	R 51.4	R 179.8	0.0	R 2,089.9
1986 1987	156.3 237.0	R -1.0 R -1.1	44.5 41.8	0.0 0.0	NA NA	NA NA	0.0 0.0	44.5 41.8	0.0 0.0	0.0 0.0	0.0 0.0	R 43.5 R 40.8	R 172.5	0.0 0.0	R 2,150.7 R 2,232.3
1988 1989	253.3 243.7	R -0.7 R -0.8	44.1 37.0	0.0 0.0	NA NA	NA NA	0.0 0.0	44.1 37.0	0.0 0.1	0.0 0.4	0.0 0.0	R 43.4 R 36.6	R 250.1 R 172.5 R 207.9 R 204.3 R 315.5 R 298.9	0.0 0.0	R 2,255.1 R 2,306.6 R 2,249.4 R 2,277.4
1989	251.5	R 0 1	25.4 35.3	0.0	NA NA NA	NA	0.0	25.4 35.3	0.1	0.4	0.0	R 25.9 R 35.8	R 315.5	0.0	R 2,249.4
1991 1992	260.1 226.1	R 0.1 R 0.1	35.3 37.9	0.0 0.0	NA NA	NA NA	0.0 0.0	35.3 37.9	0.1 0.1	0.4 _ 0.4	0.0 0.0	R 35.8 R 38.4	R 298.9	0.0 0.0	R 2,277.4
1993 1994	261.9	R 0.1	36.3 40.7	0.1	NA	NA	0.0	36.4	0.1	H 0.4	0.0	R 36.9 R 41.6	R 269.5	0.0	R 2,372.8
1994 1995	231.3 176.6	R 0.1 R (s)	40.7 42.5	0.3 1.0	NA NA	NA NA	0.0 0.0	41.0 43.5	0.1 0.1	0.5 0.5	0.0 0.0	H 41.6 R 44.1	R 285.2 R 269.5 R 269.3 R 314.3 R 372.3 R 316.9	0.0 0.0	R 2,362.1 R 2,372.8 R 2,482.5 R 2,474.9
1996 1997	115.8	R (s) R 0.1 R 0.1	40.4 38.5	0.9	NA NA	NA	0.0	41.3	0.1	R 0.5 R 0.5	0.0	R 41.9 R 40.1	R 372.3	0.0	R 2,456.1 R 2,472.7
1997 1998	146.0 284.6	H 0 1	38.5 37.9	1.0 0.8	NA NA	NA NA	0.0 0.0	39.4 38.7	0.1 0.1	0.5 0.6	0.0 0.0	H 30 /	<sup>n</sup> 316.9 R 230.7	0.0 0.0	R 2,472.7
1999	302.7	R 0 1	39.0	0.6	NA	NA	0.0	39.6	0.1	0.6	0.0	R 40 4	R 231.7	0.0	R 2,451.1 R 2,561.3
2000 2001	298.0 318.2	R (s) R 0.1	39.4 28.1	0.8 1.0	NA (s)	NA NA	0.0 0.0	40.2 29.1	0.1 0.1	0.6 R 0.6	0.0 0.0 0.0	R 40.9 R 29.9	R 225.9	0.0 0.0	R 2,477.6
2002	322.3	R (s) R 0.1	27.5	0.1	(s) (s)	NA	0.0	27.6	0.1	R 0.8 R 1.1	0.0	R 28.6 R 26.4	R 230.7 R 231.7 R 215.7 R 225.9 R 227.9 R 282.8 R 319.8 R 314.4 R 285.8 R 272.7	0.0	R 2,477.6 R 2,477.6 R 2,452.6 R 2,479.7 R 2,557.7 R 2,551.4 R 2,647.5 R 2,530.8 R 2,654.5
2003 2004	309.6 282.4	R 0 1	25.0 25.1	0.1 0.5	(s) (s) 0.1	NA NA	0.0 (s)	25.1 25.7	0.2 0.2	R 1.2 R 1.4	0.0 0.0	R 27 2	R 319.8	0.0 (s)	R 2,551.4
2005 2006	327.6 339.8	R 0.1 R 0.1	17.5	9.6	0.1 0.2	NA NA	(s)	27.2 45.2	0.2	R 1.4	0.0	R 28.9 R 47.1	R 314.4	(s) 0.0	R 2,647.5
2007	335.8	R 0.1	19.1 17.5	25.9 32.3	0.2	NA	(s) (s)	50.1	0.2 0.3	R 1.6 P 1.7	R 0.1 R 0.1	H 52.2	R 272.7	0.0 0.0	R 2,654.5
2008 2009	336.5 359.0	R 0.1 R 0.1	19.8 29.6	27.3 32.3	0.2 0.2	NA NA	(s) 0.0	47.3 62.1	0.3 0.4	R 1.9	R 0.1 R 0.1	H 49 7	R 246.3	0.0 0.0	R 2,581.3 R 2,360.3 R 2,276.7 R 2,258.8
2010	342.5	H 0.1	31.6	36.8	0.2	NA	0.0	68.6	0.4	R 2.1 R 2.6	R (s)	R 64.8 R 71.8 R 70.2	R 199.2	0.5	R 2,276.7
2011 2012	351.7 347.0	R 0.1	30.2 28.8	35.2	0.6 0.4	0.0 0.0	0.0 0.0	66.0 62.8	0.4	н 37	H (s)	H 70.2 R 60.2	H 177.4 B 155.2	0.8	H 2,258.8 R 2 152 5
2013	348.8	R (s) R 0.1	32.1	33.5 34.4	2.1	0.0	0.0	68.5	0.5 0.5	R 5.9 R 7.1	R (s)	R 69.2 R 76.2	R 153.6	0.0 1.2	R 2,152.5 R 2,195.8 R 2,209.6
2014 2015	329.5 347.9	R 0.1 R (s)	33.6 22.3	34.9 35.3	2.0 2.2	0.0 0.0	0.0 (s)	70.5 59.9	0.5 0.5	R 8.2 R 8.8	R (s) R (s) R (s) R (s) R 0.1	R 79.3 R 69.2	R 246.3 R 208.4 R 199.2 R 177.4 R 155.2 R 153.6 R 108.0 R 67.1	0.8 0.8	H 2,209.6 R 2 164 2
2016	312.6	R (s) R (s) R (s)	22.3	35.9	4.1	0.0	(s) (s) (s)	62.4	0.5 0.5	Наз	R 0.1 R 0.1 R 0.1	R 72 3	R 36.8 R 35.0	0.5	R 2,164.2 R 2,122.0 R 2,069.6
2017 2018	355.9 334.4	n (s) R 0.1	19.0 19.3	34.5 33.6	3.9 2.2	0.0 0.0	(s) 0.0	57.4 55.0	0.5 0.5	R 10.6 R 11.7	<sup>n</sup> 0.1 R 0.1	R 68.6 R 67.4	H 61 6	(s) 0.1	H 2.168.9
2019 2020	278.1 279.3	R 0.1	16.8 R 15.4	33.9 27.2	1.7 1.7	0.0	0.0	52 4	0.5 0.5	H 13 3	R 0 1	H 66.3	R 79.2	0.0	R 2 071 8
2020 2021	279.3 R 293.5	0.1 R 0.1	R 15.4 R 15.0	27.2 30.5	1.7 R 1.4	0.0 0.0	0.0 0.0	R 44.3 R 46.9	0.5 0.5	R 14.8 R 15.6	R 0.1 R 0.1	R 59.7 R 63.1	R 79.2 R 136.4 R 142.4	0.0 0.0	R 1,853.6 R 1,957.6
2022	295.3	(s)	14.9	30.6	1.2	0.0	0.0	46.6	0.5	17.8	0.1	65.0	124.2	0.0	2,014.4

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, New Jersey

						Petroleum				Unidas	Bion	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet				Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
960	2,860	114	45,694	3,213	2,125	48,706	31,693	22,984	154,416	10					17,496			
970	892	277	62,171	6,748	6,705	66,231	43,105	25,482	210,443	4					38,184			
980	89	260	50,726	7,383	8,088	72,740	40,697	24,623	204,257	3					49,585			
90	289	380	38,313	4,295	46,377	78,343	12,355	19,140	198,823	0					62,857			
000	13	470	35,899	6,801	36,781	94,729	13,295	26,224	213,729	0					69,977			
005	9	477	39,386	2,420	31,834	103,150	17,906	26,181	220,877	2					81,897			
06 07	3	417 462	36,525 39,421	1,979 2,758	33,726 36,534	103,580 106,074	16,677 19,550	23,824 25,444	216,311 229,780	0					79,681 81,934			
08	0	445	35,477	2,756	35,281	103,704	27,170	20,593	224,679	0					80,520			
09	0	457	29,425	2,218	34,420	100,913	11,026	17,146	195,150	0					75,780			
10	0	455	29,734	7.185	18.519	99.974	8.003	15.317	178,732	0					79,179			
11	0	461	32,978	7,228	18,812	98,095	7,047	16,628	180,788	0					76,860			
12	0	426	28,326	6,043	18,406	95,859	6,722	16,521	171,877	0					75,053			
13	0	465	28,697	6,224	19,447	96,167	5,692	15,356	171,584	0					74,642			
14	0	524	31,013	6,422	18,455	96,722	1,846	13,862	168,321	0					73,866			
15	0	462	29,706	6,179	19,225	97,638	3,703	15,488	171,938	0					75,490			
6	0	436	30,502	6,095	19,990	99,948	3,980	R 14,109	R 174,624	0					75,359			
7	0	431	27,509	6,008	21,120	95,371	3,247	R 15,199	R 168,456	0					73,383			
8	0	485 469	29,288 29,051	6,184 6,165	21,448 21,720	93,290 92,762	7,677 757	R 14,725 R 15,020	R 172,612 R 165,475	0					76,017 73,917			
9	0	427	26,288	6,092	9,854	73,693	5,741	R 12,743	R 134,412	0					71,998			
21	0	450	R 27,072	6,206	14,129	82,007	4,114	R 13,053	R 146,581	0					73,070			
22	Ö	477	26,996	6,097	17,435	82,093	4,216	13,068	149,904	0					74,443			
									Trillion	Btu								
960	73.4	117.8	266.2	12.2	11.5	255.9	199.3	138.4	883.4	R <sub>(s)</sub>	20.0	NA	NA	NA	59.7	R 1,154.2	R 120.4	R 1,2
70	22.2	284.2	362.1	24.8	37.5	347.9	271.0	152.6	1,196.0	(s)	30.1	NA	NA	NA	130.3	R 1,662.7	R 266.9	R 1,
80	2.0	268.8	295.5	26.3	45.4	382.1	255.9	146.8	1,152.0	(s)	51.3	NA	NA	NA	169.2	_ 1,635.8	R 359.9	R <sub>1</sub> ,
90	7.3	389.5	223.2	15.3	262.6	411.5	77.7	115.8	1,106.0	0.0	21.1	0.0	0.1	0.4	214.5	R 1,730.1	R <sub>519.3</sub>	R <sub>2</sub> ,
00	0.3	486.9	208.9	24.2	208.5	492.7	83.6	161.9	1,179.9	0.0	15.4		0.1	0.6	238.8	R 1,915.2	R 562.4	R <sub>2</sub>
)5	0.2	496.5	229.1	9.0	180.5	535.6	112.6	160.7	1,227.5	(s)	4.4		0.2	R 1.4	279.4	R 2,009.3	R 638.2	R <sub>2</sub>
06	0.2	431.6	212.0	7.4	191.2	537.1	104.8	146.6	1,199.1	(s)	5.6		0.2	R 1.6 R 1.7	271.9 279.6	R 1,910.1	<sup>R</sup> 620.6 <sup>R</sup> 618.1	R <sub>2</sub> R <sub>2</sub>
)7	0.1	477.8 459.9	228.0 205.1	10.2 9.3	207.2 200.0	545.4 529.5	122.9 170.8	157.6 127.2	1,271.4	0.0	5.6 5.7		0.3	R 1.9	279.6	R 2,036.4 R 1,984.3	R 597.0	R 2.
08 09	0.0	469.9	170.0	9.3 8.4	195.2	513.6	69.3	106.4	1,241.9 1,062.9	0.0	18.9		0.3	R 2.1	258.6	R 1,812.4	R 548.9	R 2,
0	0.0	467.3	171.7	27.6	105.2	506.6	50.3	94.7	955.8	0.0	21.8		0.4	R 2.6	270.2	R 1,717.8	R 559.7	R 2
1	0.0	473.1	190.3	27.7	106.7	496.7	44.3	102.8	968.5	0.0	19.8		0.4	H3⊿	262.2	R 1.727.3	R 533.5	R <sub>2</sub>
2	0.0	437.5	163.4	23.2	104.4	485.2	42.3	101.8	920.2	0.0	16.5		0.5	R 5.0	256.1	R 1,635.7	R 518.7	R <sub>2</sub>
3	0.0	487.3	165.4	23.9	110.3	486.6	35.8	94.3	916.2	0.0	19.8		0.5	H 5.9	254.7	H 1,684.3	R 513.7	R <sub>2</sub>
4	0.0	547.1	178.7	24.6	104.6	489.3	11.6	84.6	893.6	0.0	20.1	0.0	0.5	R 6.8	252.0	R 1,719.7	R 492.2	R <sub>2</sub>
5	0.0	484.4	171.2	23.7	109.0	493.8	23.3	_ 95.3	916.2	0.0	9.6		0.5	R 7.1	257.6	R 1,675.1	R 491.1	R 2
6	0.0	455.1	175.6	23.4	113.3	505.2	25.0	R 87.9	930.5	0.0	9.2		0.5	R 7.0	257.1	R 1,659.3	R 465.1	R <sub>2</sub>
7	0.0	448.8	158.4	23.1	119.8	481.9	20.4	R 95.5	R 899.0	0.0	6.2		0.5	R 8.0	250.4	R 1,612.9	R 458.2	R <sub>2</sub>
8	0.0	504.4	168.7	23.7	121.6	471.5	48.3	H 92.5	R 926.3	0.0	6.8		0.5	R 8.8		R 1,706.1	R 465.6	R <sub>2</sub>
9	0.0	487.6	167.3	23.7	123.2	468.6	4.8	R 94.4	R 881.9	0.0	6.1	0.0	0.5	R 9.8	252.2	R 1,638.1	R 436.7	R <sub>2</sub>
20	0.0	444.8	151.3	23.4	55.9	372.3	36.1	R 80.0	R 718.9	0.0	R 5.5		0.5	R 10.9	245.7	R 1,426.2	R 430.4	R <sub>1</sub>
21	0.0	468.2	R 156.0	23.8	80.1	414.1	25.9	H 82.1	R 782.0	0.0	R 5.5		0.5	R 11.4	249.3	R 1,516.9	R 442.1	R 1,
22	0.0	495.9	155.6	23.4	98.9	414.5	26.5	82.1	801.0	0.0	10.0	0.0	0.5	13.2	254.0	1,574.5	441.3	2,

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, New Jersey

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use <sup>e,h</sup>	energy losses i	Total <sup>e,h</sup>
1960	266 159 84 24 12 24	75	25,587 29,038 32,933 30,655 23,976 20,180 13,661 12,030 10,228	659	1,200	27.446				5.080			
1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007	159	114 140	29,038	601 746 862 695 821	969	27,446 30,607 34,448 31,948 24,933 21,907 14,760 13,650 12,291 10,256 8,231 9,072 9,598 8,217 6,972 6,112 5,263 5,574 6,333 6,056 4,303 4,378 5,590 5,440				5,080 7,410 12,131 14,495 16,329 17,177 20,498 22,470 24,547 29,973 28,622 29,752 29,111 27,833 30,307			
1970	84	140	32,933	746	769	34,448				12,131			
1975	24	129	30,655	862	969 769 431 262 907 295 236 299	31,948				14,495			
1980	12	136 151	23,976	695	262	24,933				16,329			
1985	24	151	20,180	821	907	21,907				17,177			
1990	3	172	13,661	804	295	14,760				20,498			
1995	1	194 220	12,030	1,384 1,764	236	13,650				22,470			
2000	1 (-)	220	10,228	1,/64	299	12,291				24,547			
2005	(s) (s) (s)	231 197 228	8,801 7,079 7,527 7,972 6,639 5,447 4,596 4,202 4,416 4,963 4,916 3,257 3,253 4,302 4,182	1,764 1,271 1,036 1,473 1,572 1,543 1,489	184 116 72	10,256				29,973			
2000	(8)	197	7,079	1,030	110	0,231				20,022			
2007	(8)	220	7,327	1,473	7 Z	9,072				29,732			
2008 2009 2010	0	220 226 219	6 630	1,572	54 36 36	9,390				27,111			
2009	0	210	5,039	1,343	36	6,217				27,033 30,307			
2011 2012 2013 2014 2015 2016	0	21/	4 596	1,403	26	6 112				30,307 29,399 28,663 28,545 27,893 29,142 29,091 27,762 29,531 28,613			
2011	0	191	4 202	1,451	26 11	5 263				28 663			
2013	ő	226	4 416	1,491 1,050 1,147	11	5 574				28 545			
2014	ő	191 226 248 237 216	4 963	1 353	17	6.333				27 893			
2015	ŏ	237	4,916	1,353 1,130	10	6.056				29,142			
2016	Ō	216	3,257	1,037 1,120 1,282 1,252	10	4,303				29.091			
2017 2018	Ö	222 248 239	3,253	1,120	5	4.378				27.762			
2018	0	248	4,302	1,282	5	5,590				29,531			
2019	0	239	4,182	1,252	6	5,440				28,613			
2020 2021	0	223	_ 3,447	1,007	5 6	_ 4,459				29,677			
2021	0	223 232 238	3,447 R 4,161 4,256	1,007 1,066 944	6	4,459 R 5,233				29,677 30,090			
2022	0	238	4,256	944	6	5,205				30,062			
							Trillion Btu						
1960	6.6 3.9 2.0	77.7 119.6 143.9 133.4 140.9 154.3 175.8 201.2	149.0	2.5 2.3 2.9	6.8 5.5 4.4	158.4 176.9 199.1 184.3 143.8 125.8 84.3 76.7	7.1	NA NA NA	NA	17.3 25.3 41.4	267.1 332.4 396.4 378.8 368.9	R 34.9 R 49.7 R 84.8 R 101.0 R 118.5 R 119.1 R 169.3 R 180.1 R 197.3 R 223.9 R 224.4 R 215.6 R 214.2 R 201.6 R 214.2 R 204.1 R 198.1 R 198.4 R 185.9 R 189.6 R 179.5 R 173.4 R 180.0 R	R 302.1 R 382.1 R 481.1 R 479.7 R 487.5 R 482.9 R 512.2 R 547.6 R 582.7 R 636.1 R 573.5 R 614.7 R 598.7 R 586.4 R 593.7 R 569.6 R 533.1 R 575.9 R 543.0 R 552.9 R 577.0 R 552.9 R 577.0
1965	3.9	119.6	169.1 191.8	2.3	5.5	176.9	6.8	NA	NA	25.3	332.4	R 49.7	R 382.1
1970	2.0	143.9	191.8	2.9	4.4	199.1	10.1	NA	NA	41.4	396.4	_H 84.8	H 481.1
1960 1965 1970 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007 2008 2009 2009 2010	0.5 0.3	133.4	178.6	3.3 2.7	2.4	184.3	6.8 10.1 11.0 32.2 30.0 16.2 14.5 8.4 1.4	NA NA	NA	49.5	378.8	H 101.0	H 479.7
1980	0.3	140.9	139.7	2.7	1.5	143.8	32.2	NA	NA	55.7	368.9	H 118.5	H 487.5
1985	0.6	154.3	117.5	3.2	5.1	125.8	30.0	NA	NA	58.6	363.8	n 119.1	n 482.9
1990	0.1	1/5.8	79.6	3.1 5.3	1.7	84.3	16.2	0.1 0.1	0.4	69.9	n 342.8	n 169.3	D 512.2
1995	(S) (S)	201.2	70.0	5.3	1.3	/6./	14.5	0.1	0.5 B 0.5	/6./	367.5	" 180.1 B 407.0	11 547.6 B 500.7
2000	(S)	227.8	59.5	6.8 4.9	1.7	68.0	8.4	0.1 0.2 0.2 0.3 0.3	11 U.5	83.8	385.5 B 400.5	1197.3 B 000.6	B coc 4
2005	(8)	240.3	31.2	4.9	1.0 0.7	37.1 45.7	1.4	0.2	" 1.3 B 1 5	102.3	H 402.5	B 200.0	030.1 B 570.5
2006 2007	(s) (s) 0.0	204.4	41.1	4.0 5.7	0.7	45.7 40.6	1.3	0.2	" 1.5 R 1.6	97.7	R 300.0	R 224.4	R 614.7
2007	(3)	200.1	40.5 46.1	6.0	0.4	52.4	1.4	0.3	R 1.6	101.5	R 382 0	R 215 8	R 508 7
2000	0.0	227.0	38.4	5.0	0.3	44.5	11.0	0.4	R 1.6	95.5 95.0	R 384 8	R 201 6	R 586 4
2010	0.0	224.8	31.5	4.0 5.7 6.0 5.9	0.2	37.4	11.8	0.4	R 1.8	103.4	R 379 4	R 214 2	R 593 7
2010	0.0	210.2	26.5	5.7	0.1	32 /	11.0	0.4	R 2 0	100.4	R 365.5	R 204 1	R 560.7
2011 2012 2013 2014 2015 2016 2017	0.0	196.7	178.6 139.7 117.5 79.6 70.0 59.5 51.2 41.1 43.5 46.1 38.4 31.5 26.5 24.2 25.4 28.6 28.3 18.7	4.0	0.1	68.0 57.1 45.7 49.6 52.4 44.5 37.4 28.3 29.9 33.9 32.7 22.8 23.1	1.3 1.4 1.6 11.0 11.8 11.4 9.5 12.4 12.6 3.2 2.7 2.4	0.4 0.4 0.5 0.5	0.4 0.5 R 0.5 R 1.5 R 1.6 R 1.6 R 1.8 R 2.0 R 2.2 R 2.4 R 2.7	97.8	363.8 342.8 367.5 385.5 R 402.5 R 350.6 R 390.3 R 382.9 R 384.8 R 379.4 R 365.5 R 335.0 R 379.4 R 403.5 R 387.0	R 198.1	R 533 1
2013	0.0	236.9	25.4	4.4	0.1	29,9	12.4	0.5	R 2.4	97.4	R 379.4	R 196.4	R 575.9
2014	0.0	258.9	28.6	4.4 5.2	0.1	33.9	12.6	0.5	R 2.7	95.2	R 403.5	R 185.9	R 589.4
2015	0.0	248.4	28.3	4.3	0.1	32.7	3.2	0.5	R 2.9	99.4	R 387.0	R 189.6	R 576.6
2016	0.0 0.0	225.0	18.7	4.3 4.0 4.3	0.1	22.8	2.7	0.5	R 3.4	99.3	R 353.6	R 179.5	R 533.1
2017	0.0	230.8	18.7	4.3	(s)	23.1	2.4	0.5	R 4.1	94.7	R 355.6	R 173.4	R 528.9
2018	0.0	257.5	24.8	4.9 4.8	(s)	29.7 28.9	3.0	0.5	R 4.6	100.8	R 396.1	R 180.9	R 577.0
2019	0.0	248.8	24.1	4.8	(s)	28.9	2.7	0.5 0.5 0.5 0.5 0.5	R 5.3	97.6	H 383.7	H 169.0	R 552.7
2020	0.0	227.8 240.3 204.4 236.1 227.8 232.6 224.8 219.2 196.7 236.9 258.9 248.4 225.0 230.8 257.5 248.8 232.6 241.4	24.8 24.1 19.8 24.0 24.5	3.9	(s) (s) (s)	23.7 28.1 28.2	3.0 2.7 R 1.9 R 1.8 2.3	0.5 0.5 0.5	R 2.9 R 3.4 R 4.1 R 4.6 R 5.7 R 6.0 7.1	49.5 55.6 69.9 76.7 83.8 102.3 97.7 101.5 99.3 95.0 103.4 100.3 97.8 97.4 99.4 99.4 99.4 99.4 99.3	R 396.1 R 383.7 R 365.6 R 380.5	H 177.4	H 543.0
		2/1/	24.0	4.1 3.6	(s)	28 1	H 1 R	0.5	H60	102 7	n 380 5	n 182 1	H 562 6
2018 2019 2020 2021 2022	0.0 0.0	241.4	21.0	7.1	\	20.1	1.0	0.0	0.0	102.7	388.6	102.1	002.0

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, New Jersey

					Pet	roleum			Lludua	Biomass						
1	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	185	10	8,640	208	466	308	7,117	16,739	NA			NA	4,391			
1965	120	20	9,805	190	377	420	7,473	18,265	NA			NA	6,945			
1970 1975	66 56	56 53	11,121 10,351	236 272	299 168	613 634	11,415 6,484	23,683 17,909	NA NA			NA NA	10,799 13.849			
1980	44	53 60	9,167	219	39	297	10,950	20,672	NA		==	NA	16,878			
1985 1990	84 10	83 116	6,296 8,217	259 254	77 178	660 754	3,128 1,460	10,420 10,863	NA 0			NA 2	20,903 27,201	==		
1995	6	139	3,467	437	566	78	1,238	5,786	0			3	30,170			
2000	4	159	3,340	557	1,189	74	479	5,639	0			.6	33,474			
2005 2006	3	170 153	3,498 2,092	393 327	351 140	71 70	281 217	4,594 2,846	0			17 33	39,762 39,437			
2007	2	169	3,349	430	108	76	233	4,196	Ö			48	40,876			
2008 2009	0	169 180	2,448 2,219	391 369	57 37	74 68	474 415	3,444 3,108	0			70 125	40,570 39,377			
2010	0	181	1,944	468	10	69	141	2,632	0			231	40,123			
2011	0	192	2,467	436	14 3	65	125 43	3,107	0			416	39,118			
2012 2013	0	175 172	1,891 2,018	355 413	2	65 72	43 35	2,357 2,540	0			769 979	38,340 38,231			
2014	Ö	202	2,184	381	3	148	7	2,722	Ö			1,125	38,154			
2015 2016	0	163 153	1,906 1,622	315 342	1 6	2,153 2,178	10 17	4,385 4,165	0			1,150 954	38,723 38,672			
2017	0	149	1,511	289	3	2,176	0	3,968	0			1,011	37,971			
2018	0	167	1,448	349	6	2,178	3	3,984	0			1,083	38,807			
2019 2020	0	156 138	1,647 1,150	288 429	9 6	2,194 2,212	0	4,138 3,798	0			1,163 1,301	38,013 35,316			
2021	ŏ	150	1,778	424	5	2,236	1	R 4,442	ő			1,373	36,137			
2022	0	154	1,795	380	4	2,455	1	4,636	0			1,564	37,374			
								Tril	lion Btu							
1960	4.6	10.7	50.3	0.8	2.6	1.6	44.7	100.1	NA	0.1	NA	NA	15.0	130.5	R 30.2	R 160.7
1965 1970	2.9 1.6	21.1 57.4	57.1 64.8	0.7 0.9	2.1 1.7	2.2 3.2	47.0 71.8	109.2 142.4	NA NA	0.1 0.2	NA NA	NA NA	23.7 36.8	157.0 238.4	R 46.6 R 75.5	R 203.6 R 313.8
1975	1.2	55.0	60.3	1.0	1.0	3.3	40.8	106.4	NA	0.2	NA	NA	47.3	210.1	R 96.5	H 306 6
1980 1985	1.0 2.0	62.5 85.3	53.4 36.7	0.8 1.0	0.2 0.4	1.6 3.5	68.8 19.7	124.9 61.2	NA NA	0.8 0.7	NA NA	NA NA	57.6 71.3	245.0 217.5	R 122.5 R 144.9	R 367.5 R 362.4
1990	0.3	118.4	36.7 47.9	1.0	1.0	4.0	9.2	63.0	0.0	1.8	0.0	(s)	92.8	273.6	R 224 7	R 408 3
1995	0.2	143.8	20.2	1.7	3.2	0.4	7.8	33.3	0.0	2.0	0.0	(a)	102.9	280.7	R 241.8	R 522.5
2000 2005	0.1 0.1	164.3 176.7	19.4 20.4	2.1 1.5	6.7 2.0	0.4 0.4	3.0 1.8	31.7 26.0	0.0 0.0	1.4 0.2	0.0 0.0	R (s) R 0.1	114.2 135.7	309.5 R 338.6	R 269.0 R 309.9	R 578.5 R 648.4
2006	(s)	158.0	12.1	1.3	0.8	0.4	1.4	15.9	0.0	0.2	0.0	R 0.1	134.6	R 308.9	H 307.2	R 616.0
2007 2008	0.1 0.0	174.7 174.2	19.4 14.1	1.7 1.5	0.6 0.3	0.4 0.4	1.5 3.0	23.5 19.3	0.0 0.0	0.2 0.3	0.0 0.0	R 0.2 R 0.2	139.5 138.4	R 338.0 R 332.3	R 308.4 R 300.8	R 646.4 R 633.1
2008	0.0	185.6	12.8	1.4	0.3	0.4	2.6	17.4	0.0	4.5	0.0	R 0.4	134.4	H 342.2	R 285.2	H 627.4
2010	0.0	186.2	11.2	1.8	0.1	0.3	0.9	14.3	0.0	4.5	0.0	R 0.8 R 1.4	136.9	R 342.5	R 283.6 R 271.5	H 626.1
2011 2012	0.0 0.0	196.8 179.5	14.2 10.9	1.7 1.4	0.1 (s)	0.3 0.3	0.8 0.3	17.1 12.9	0.0 0.0	5.3 4.0	0.0 0.0	n 2 6	133.5 130.8	R 354.0 R 329.8	R 265 0	R 625.5 R 594.8
2013	0.0	180.0	11.6	1.6	(s) (s)	0.4	0.2	13.8	0.0	4.2	0.0	Raa	130.4	H 331.7	R 263.1 R 254.2	n 594 8
2014 2015	0.0 0.0	211.3 171.0	12.6 11.0	1.5 1.2	(s) (s)	0.7 10.9	(s) 0.1	14.9 23.2	0.0 0.0	4.4 3.3	0.0 0.0	R 3.8 R 3.9	130.2 132.1	R 364.5 R 333.4	R 254.2 R 251.9	R 618.7 R 585.4
2016	0.0	159.8	9.3	1.3	(s)	11.0	0.1	21.8	0.0	3.4	0.0	P o o	132.0	R 320 1	R 238.7 R 237.1	H 558 8
2017	0.0 0.0	155.1 174.1	8.7	1.1	(s)	10.9	0.0	20.8	0.0 0.0	3.3 3.2	0.0 0.0	R 3.4 R 3.7	129.6 132.4	R 312.2 R 334.1	R 237.1 R 237.7	R 549.3 R 571.8
2018 2019	0.0	1/4.1	8.3 9.5	1.3 1.1	(S) (S)	11.0 11.1	(s) 0.0	20.7 21.7	0.0	2.9	0.0	H 1 U	132.4	n 3201 1	R 224.6	n 544 7
2020	0.0	143.8	6.6	1.6	(s)	11.2	0.0	19.5	0.0	3.0	0.0	R 4 4	120.5	R 291.2	R 211.1	R 502.3
2021 2022	0.0 0.0	156.0 160.0	R 10.2 10.3	1.6 1.5	(s) (s)	11.3 12.4	(s) (s)	23.2 24.2	0.0 0.0	3.0 7.1	0.0 0.0	R 4.7 5.3	123.3 127.5	R 310.2 324.1	R 218.7 221.6	R 528.9 545.7
	0.0	100.0	10.0	1.0	(0)	12,-1	(0)	27.2	0.0	,,,	0.0	0.0	127.0	OLT. I	LL 1.0	0-10.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, New Jersey

-					Petrol	eum				Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet	'		Thousand	l barrels			Million kWh	Wood and waste <sup>f,g</sup>	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960	2,368 1,921	28	6,719	2,340 3,438	612	18,822	19,486	47,980	10				NA	8,021			
1960 1965	1,921	28 52	8,423	3,438	612 532	18,822 17,049	22,957	52,398	4				NA	11,519			
1970 1975	740 67	80 52	9,560 7,963	5,665 6,096	401 233	22,609 14,809	23,681 22,337	61,916 51,439	4				NA NA				
1980	33	63	7.339	6.429	147	17.694	23.527	55,136	3				NA	16.345			
1985	359 276	81	2,835 3,453	5,994	462	4,851 3,622	17,293	31,436	3				ŅĄ	15,657			
1990 1995	276 13	90 209	3,453 1,994	3,163 2,172	460 602	3,622 1,901	17,818 21,823	28,516 28,492	0	==			(s)	15,041 13,989			
2000	8	88	1,795	4,457	259	590	23,902	31,005	0				1	11,812			
2005	6	75	1.958	670	1,054	430	24.910	29,020	2				4	11.862			
2006	5	66	2,231	546	1,096	469	22,869	27,211	1				1	11,331			
2007 2008	0	63 54	1,977 1.838	770 375	1,175 953	512 315	24,494 19,814	28,928 23,294	0				2	11,013 10,537	==		
2009	0	48	1,960	241	910	241	16,496	19,849	0	==	==	==	5	8,250		==	
2010	Ō	49	1,697	5,211	1,132	76	14.489	22,605	Ö				11	8,429			
2011 2012	0	50	2,099	5,284	1,110	308	15,813 15,829	24,613	0				23	8,033			
2012 2013	0	55 61	1,901 1,643	4,620 4,643	1,087 1,102	272 121	15,829 14,643	23,709 22,152	0				23 48 63	7,762 7,566			
2013	0	61	2.085	4,663	851	4	13,124	20,727	0				73	7,500			
2015	Ö	55	2,137	4,700	1,242	Ó	14 748	22 828	Ö				82	7,320			
2016	0	61	2,209	4,676	1,252	0	R 13,382	R 21,519	0				.91	7,293			
2017 2018	0	54 64	1,687 1,558	4,584 4,524	1,273 1,298	0	R 14,579 R 14,098	R 22,124 R 21,479	0				112 131	7,343 7,369			
2019	0	65	1,725	4,585	1,307	0	H 14.446	R 22,063	0				164	6,990			
2020	Ö	59	1,498	4,609	1,321	Ö	R 12,220	R 19.648	Ö				206	6,735			
2021	0	60	1,845	4,674	1,324	0	R 12,375	R 20,218	0				209	6,593			
2022	0	77	1,864	4,713	1,371	0	12,398	20,346	0				214	6,754			
									Trillion Bt	u							
1960	61.2	28.7	39.1	8.9	3.2	118.3	119.0	288.6	R (s)	12.8	NA	NA	NA	27.4	R 418.7	R 55.2 R 77.3	R 473.9
1965 1970	49.0	54.6	49.1 55.7	13.0 20.7	2.8	107.2	137.7	309.8	(s)	17.1	NA NA	NA NA	NA NA		469.9 535.2	R 106.3	R 547.2 R 641.5
1970	18.6 1.6	81.9 54.0	55.7 46.4	20.7	2.1 1.2	142.1 93.1	142.2 134.2	362.8 296.5	(s)	19.9 22.6	NA NA	NA NA	NA NA		535.2 424.3	R 101.5	R 525.7
1980	0.8	64.9	42.7	22.7	0.8	111.2	140.4	317.8	(s) (s)	18.3	NA	NA	NA	55.8	455.8	<sup>rt</sup> 118.6	H 574.4
1985	8.8	83.0	16.5	20.5	2.4	30.5	105.6	175.5	(s)	21.5	0.0	NA	ŅĄ		339.3	R 108.6	R 447.9
1990 1995	7.0 0.3	92.6 216.2	20.1 11.6	10.9	2.4 3.1	22.8 12.0	108.1 134.3	164.3 168.5	0.0	3.1 4.5	0.0 0.0	0.0 0.0	(s)	51.3 47.7	316.2 434.9	R 124.3 R_112.1	R 440.4 R 547.1
2000	0.3	91.6	10.4	7.5 15.2	1.3	3.7	148.5	179.3	0.0	4.5 5.6	0.0	0.0	(S)	40.3	315.6	Воло	R 410.5
2005	0.1	77.9	11.4	2.3	5.5	2.7	153.3	175.2	(s)	2.8	(s)	0.0	(s)	40.5	296.4	R 92 4	H 388.8
2006	0.1	68.0	12.9	1.9	5.7	2.9	141.0	164.5	(s)	4.1	(s)	0.0	(s)	38.7	275.3 282.2	R 88.3 R 83.1	R 363.6 R 365.3
2007 2008	0.0 0.0	65.3 55.8	11.4 10.6	2.6	6.0 4.9	3.2 2.0	152.1 122.7	175.4 141.4	0.0	4.0 3.9	(s)	0.0 0.0	(s)	37.6 36.0	282.2 237.0	R 78.1	R 365.3
2008	0.0	49.9	11.3	1.3 0.8	4.9	1.5	102.7	120.8	0.0	3.9	(s)	0.0	(s)	28.1	237.0	78.1 R 59.8	R 262 0
2010	0.0	50.6	9.8	20.0	5.7	0.5	89.8	125.8	0.0	5.6	0.0 0.0	0.0	R (s)	28.8	202.3 R 210.6	R 59.8 R 59.6	R 262.0 R 270.2
2011	0.0	51.2	12.1	20.3	5.6	1.9	98.0	137.9	0.0	3.1	0.0	0.0	R 0.1	27.4	R 219.6	H 55 8	R 275.4 R 273.3
2012	0.0	56.3	11.0	17.7	5.5	1.7	97.7	133.6	0.0	3.0	0.0	0.0	R 0.2	26.5	R 219.6	R 53.6 R 52.1	H 273.3
2013 2014	0.0 0.0	64.4 64.3	9.5 12.0	17.8 17.9	5.6 4.3	0.8 (s)	90.1 80.3	123.7 114.5	0.0 0.0	3.2 3.1	0.0 0.0	0.0 0.0	R 0.2 R 0.2	25.8 25.6	R 217.3 R 207.7	R 52.1	R 269.3 R 257.8
2014	0.0	58.0	12.3	18.0	6.3	0.0	90.9	127.5	0.0	3.1	0.0 (s)	0.0	R 0.3	25.0	R 213.8	R 47.6	R 261.5
2016	0.0	63.6	12.7	17.9	6.3	0.0	R 83.6	120.5	0.0	3.1	(s) (s)	0.0	R 0.3	24.9	R 212.4	R 47.6 R 45.0	R 257.4
2017	0.0	56.6	9.7	17.6	6.4	0.0	R 91.8	R 125.5	0.0	0.5	(s)	0.0	R 0.4		R 208.0	H 45 9	R 253.9 R 259.8
2018 2019	0.0	66.7 67.7	9.0 9.9	17.4 17.6	6.6 6.6	0.0 0.0	R 88.8 R 91.0	R 121.7 R 125.1	0.0	0.6 0.5	0.ó 0.0	0.0	R 0.4 R 0.6	25.1 23.9	R 214.6 R 217.7	R 45.1 R 41.3	R 259.8
2019	0.0	61.1	9.9 8.6	17.6	6.7	0.0	R 76.8	R 109.8	0.0	0.5	0.0	0.0	R 0.7	23.0	R 195 2	R 40 3	R 235.5
2021	0.0	62.6	10.6	17.9	6.7	0.0	R 78.1	H 113.4	0.0	0.7	0.0	0.0	H 0.7	22.5	R 199.8	R 39.9	R 239.7
2022	0.0	79.7	10.7	18.1	6.9	0.0	78.2	114.0	0.0	0.6	0.0	0.0	0.7	23.0	218.0	40.0	258.1

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, New Jersey

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
'ear	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
60	41	1	1,147	4,748	6	2.125	685	47,786	5,754	62,252	4			-
35 70	6	(s)	1 153	5,964 8,558	40	2,125 5,280	619	54,198	6.431	73,684 90,396	4			-
70	1 (-)	1 (-)	160 92 83	8,558	102	6,705	574	65,217	9,081	90,396	39			
75 30	(s)	(s) (s)	92 83	8,907 10,243	98 40	5,777 8,088	605 713	76,750 72,296	4,246 12,053	96,475 103,516	43 33			
35	Ö	2	184	13.766	111	43,910	649	74.283	11.010	143 911	95			
90	Ö	3	119	12,982	75 69	46,377	649 730 696	77,129	7,273	144,684 155,972	117			
95	0	3	145	15,309	69	50,059	696	81,644	8,049	155,972	125			
00 05	0	3 2	90 109	20,536 25,130	22 87	36,781 31,834	744 627	94,396 102,025	12,226 17,195	164,795 177,007	144 299			
)6	0	2	88	25,130 25,123	87 70	31,834	611	102,025	17,195	177,007	299 291			
)7	0	2	139	26,568	85	36,534	631	104,822	18 804	187 584	293			
)8	Ŏ	2	81	23,219	118 66	35,281	586 527	102,677	26,381 10,370	188,344 163,975	302			
9	Ö	2	81 51	23,219 18,607	66	34.420	527	99,935	10,370	163,975	320			
0	0	6	82 77	20,646 23,817	17	18,519	700	98,773	7,786 6,614	146,523 146,955 140,548	321			
1	0	6	77	23,817	17	18,812	698	96,920 94,707	6,614	146,955	310			
2	0	5 6	70	20,331	17	18,406 19,447	610	94,707	6,407	140,548	287 301			
4	0	12	60 84	20,621 21,782	21 25	18,455	639 634	94,993 95,723	5,536 1,835	141,318 138,539	303			
5	0	7	44	20,747	33	19,225	685	94 242	3 693	138 669	304			
6	Ö	6	45	23,415	40	19,990	R 667 R 566	96,517 91,934	3,964 3,247	138,669 R 144,637 R 137,986	303 307			
7	Ö	6	46	23,415 21,058	40 15	19,990 21,120	R 566	91,934	3,247	R 137,986	307			
8	0	6	51	21 979	28	21,448	R 565	89,814	7,674	n 141 559	310			
9	0	9	57	21,496 20,193	41	21,720	503 R 461	89,261	757 5,741	R 133,835 R 106,508	301			
20 21	0	γ ο	57 51 59	R 19,288	48 43	9,854 14,129	H 455	70,160 78,447	5,741 4,113	R 116,688	270 249			
22	ő	8	61	19,081	60	17,435	472	78,267	4,215	119,717	253			
							Tr	illion Btu						
30	1.0	0.6	5.8	27.7	(s) 0.2	11.5	4.2	251.0	36.2	336.3	(s) (s) 0.1	337.9	(s) (s) 0.3 R 0.3	_ 33
65 70	0.2	0.5 1.0	5.8	34.7	0.2	29.4	3.8	284.7	40.4	399.0	(s)	399.6	(s)	R 3
'5	(s) (s)	0.4	0.8 0.5	49.8 51.9	0.4 0.4	37.5 32.3	3.8 3.5 3.7	342.6 403.2	57.1 26.7	491.7 518.6	0.1	492.8 519.1	0.3 B o a	R4 R5
เก	0.0	0.4	0.3	59.7	0.4	45.4	4.3	379.8	75.8	516.0 565.5	0.1	566.1	R 0.3	5
0 5	0.0	0.5 2.3	0.9	80.2	0.4	248.6	4.3 3.9	390.2	69.2	565.5 793.5	0.3	796.1	R 0.2 0.7	R 7
0	0.0	2.7 2.7 3.3	0.6	75.6	0.3	262.6	4.4 4.2 4.5	405.2	45.7	794 4	0.4	797.5	1.0 1.0	7
5	0.0	2.7	0.7	89.1	0.3	283.8	4.2	424.9	50.6	853.6 900.9	0.4	856.7	1.0	
0	0.0	3.3	0.5	119.5	0.1	208.5	4.5	491.0	76.9	900.9	0.5	904.7	1.2 R 2.3 2.3 R 2.2 R 2.2	R
5	0.0 0.0	1.6 1.2	0.5 0.4	146.2 145.8	0.3 0.3	180.5 191.2	3.8 3.7	529.7 531.0	108.1 100.5	969.2 973.0	1.0 1.0	971.9 975.4	<sup>n</sup> 2.3	9
7	0.0	1.7	0.4	143.0	0.3	207.2	3.8	539.0	118.2	1,022.9	1.0	1,025.9	R 2.3	1,0
3	0.0	2.1	0.4	153.7 134.2	0.5	200.0	3.6	524.3	165.9	1,028.8	1.0	1,032.2	R 2.2	1,0
9	0.0 0.0	1.9 5.7	0.3 0.4	107.5 119.2	0.3 0.1	195.2 105.0	3.2 4.2	508.7 500.5	65.2	880.2 778.4	1.1	883.2 785.1	R 2.3 2.3	7
)	0.0	5.7	0.4	119.2	0.1	105.0	4.2	500.5	48.9	778.4	1.1	785.1	2.3	7
1	0.0	6.0	0.4	137.4	0.1	106.7	4.2	490.7	41.6	781 1	1.1	788.1	2.2 2.0 2.1 R 2.0 2.0 1.9 R 1.9	7
2	0.0	4.9 6.0	0.4 0.3	117.3	0.1	104.4 110.3	3.7 3.9	479.4 480.7	40.3	745.4 748.8	1.0	751.3	2.0	R <del>7</del>
3 4	0.0 0.0	0.U 12.7	0.3	118.8 125.5	0.1 0.1	10.3	3.9	480.7 484.3	34.8 11.5	740.8	1.0 1.0	755.9 744.0	R 2 0	R 7
5	0.0	12.7 7.0	0.4	119.5	0.1	104.0	4.2	476.6	23.2	730.3 732.9 765.4	1.0	744.0	2.0	Н7
6	0.0	6.7	0.2 0.2	134.8	0.2	113.3	R 4.0 R 3.4	487.9	24.9	765.4	1.0	773.2	_ 1.9	R <sub>7</sub>
7	0.0	6.3	0.2	121.2	0.1	119.8	R 3.4	464.5	20.4	/29 /	1.0	H 737.0	R 1.9	7
8	0.0	6.1	0.3	126.6	0.1	121.6	R 3.4	453.9	48.2	R 754.1 R 706.2	1.1	R 761.3	19	R 7
9	0.0	9.4 7.4	0.3	123.8	0.2	123.2	R 3.1	450.9	4.8	H 706.2	1.0	716.6	1.8	н 7
20 21 22	0.0 0.0 0.0	7.4 8.2 8.3	0.3 0.3 0.3	116.2 R 111.2	0.2 0.2 0.2	55.9 80.1	2.8 R 2.8 2.9	354.4 396.2 395.2	36.1 25.9 26.5	565.9 R 617.4	0.9	574.2 R 626.4 643.8	1.8 R 1.6 R 1.5 1.5	R 5 R 6
	U.U	0.2	0.3	110.0	0.2	98.9	∠.8	390.2	∠5.9	634.6	0.9 0.9	0∠0.4	1.5	6

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, New Jersey

				Petro	leum				Biomass			· · · · · · · · · · · · · · · · · · ·		
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Waad	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million kil	owatthours		Total <sup>f,i</sup>
1960	3,565	25 22	357	0	11,160	11,518	0	35 -35		0	NA	NA	0	
1965	6 829	22	382	0	11,947	12.329	0	-35		0	NA	NA	0	
970 975	4,054 2,250	46 9	1,220 2,244	0	37,665 23,924	38,885 26,168	3,454 3,146	-407 -276		0	NA NA	NA NA	0	
980	2.545	80	2,821	0	12,919	15,740	7,627	-286		0	NA NA	NA NA	0	_
985	3,476	61	671	0	4,997	5,668	17,770	-247		Ö	0	0	0	_
990	2,740	66	686	0	2,839	3,525	23,770	31		0	0	0	0	-
995	2,996 4,382	152 135 125	1,279	0	1,339 737	2,618	16,806	11		0	0	0	0	-
000 005	4,382 4,995	135 125	1,135 428	0	737 874	1,872 1,302	28,578 31,392	14 29		0	0	0	0	-
006	4,995	131	127	0	205	331	32 568	34		0	0	16	0	_
007	4,635 4,669	131 157	127 226	ŏ	205 230	331 456	32,568 32,010	34 21		ŏ	Ö	20	Ö	_
800	4.165	170	219	0	99 76	319	32.195	26 32		0	3	21	0	-
009	2,541 3,082	164	59 208	0	76	136	34,328	32		0	11	21	0	-
010 011	3,082 1,976	199 200 226	208	0	57 44	265 135	32,771 33,606	18 24		0	21 60	13 11	134 247	_
012	1,007	226	92 43	0	15	135 58 80	33,110	11		0	266	12	0	_
013	1,017	217 250	66	0	14	80	33 380	18		Ō	353 406	11	360	-
014	1,214	250	276	0	20	296	31,507	17		0	406	23	233	-
15	893	283	121	0	20	141	33,262	10		0	494	22	232	-
)16 )17	667 631	327 276	61 56	0	3	64 56	29,885 34,033	9 14		0	685 779	21 22	142	-
018	648	285	258	0	0	258	31,982	36		0	862	23	22	_
019	530	285 292	258 75	Ö	Ŏ	258 75	26,637	36 26		Ö	1,015	23 22	22 0	-
020	473	226	35 39	0	0	35	26,738	15		0	1,158	20	0	-
021 022	496 242	221 251	39 148	0	0	39 148	28,142 28,319	18 5		0	1,243 1,362	20 22	0	-
.022	LTL	201	140	-	0		Frillion Btu	3		-	1,002	22	-	
960	95.4	26.4	2.1	0.0	70.0		0.0	R 0.1	0.0	0.0	NA	NA	0.0	R 194.
965	180.7	23.4	2.2	0.0	70.2 75.1	72.2 77.3	0.0	R_0 1	0.0	0.0 0.0	NA NA	NA NA	0.0	R 281.3
970	101.1	47.1	7.1	0.0	236.8	243.9	37.9	R <sub>-1</sub> /	0.0	0.0	NA	NA	0.0	R 428. R 263.
975	57.2	47.1 8.8	13.0	0.0	150.4	163.4	34.6	H <sub>-</sub> na	0.0	0.0	NA	NA	0.0	R 263.
980	66.6	82.2	16.3	0.0	81.2	97.5	83.2	R -1.0 R -0.8	0.0	0.0	NA	NA	0.0	R 326. R 377.
985 990	92.0 73.5	64.2 68.5	3.9 4.0	0.0 0.0	31.4 17.8	35.3 21.8	188.8 251.5	R 0.1	0.0 4.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 418
995	79.4	156.9	7.4	0.0	8.4	15.9	176.6	R (s)	21.4	0.0	0.0	0.0	0.0	R 448
000	114.4	139.6	6.6	0.0	4.6	11.2	298.0	R (s) R (s) R 0.1	24.0	0.0	0.0	0.0	0.0	R 448 R 585
005	125.1 115.9	129.4	2.5 0.7	0.0	5.5 1.3	8.0	327.6	B 0.1	13.1	0.0	0.0	0.0	0.0	H 603
006	115.9	135.3	0.7	0.0		2.0 2.8	339.8 335.8	R 0.1	13.5	0.0	0.0	R 0.1 R 0.1	0.0	R 606 R 625
007 008	111.7 97.7	162.8 175.3	1.3 1.3	0.0 0.0	1.4 0.6	2.8 1.9	335.8 336.5	R 0.1 R 0.1	11.9 14.1	0.0 0.0	0.0 (s)	HO1	0.0 0.0	н 625
009	59.6	168.9	0.3	0.0	0.5	0.8	359.0	R 0 1	10.7	0.0	(s) R (s) R 0.1	R 0.1	0.0	R 599
010	72.0	204.2	0.3 1.2	0.0	0.4	1.6	359.0 342.5	R 0 1	9.8	0.0	R 0.1	R 0.1 R (s) R (s)	0.5	R 599 R 630
011	49.6 25.6	204.8	0.5 0.3	0.0	0.3	0.8	351.7	R <sub>0.1</sub>	10.5	0.0	H02	H (s)	0.8	H 618
012 013	25.6 25.9	233.5 225.0	0.3 0.4	0.0 0.0	0.1 0.1	0.3 0.5	347.0 348.8	R (s) R 0.1	12.3 12.2	0.0 0.0	R 0.9 R 1.2	R (s) R (s)	0.0 1.2	R 618 R 619 R 614
014	25.9 30.7	225.0 258.6		0.0		0.5 1.7	340.0	H n 1	12.2	0.0	R 1.2	Roi i	0.8	R 636
015	22.9	295.0	1.6 0.7	0.0	0.1 0.1	0.8	329.5 347.9	R (s)	13.4 12.7	0.0	R 1.4 R 1.7	H 0.1	0.8	R 636. R 681.
016	17.5	339.1	0.4	0.0	(s) 0.0	0.4	312.6	R (s)	13.1	0.0	R 2.3 R 2.7	H 0.1	0.5	R 685 R 673
017	16.5	285.3	0.3	0.0	0.0	0.3	355.9	R (s) R (s) R (s) R (o.1	12.8	0.0	H 2.7	R 0.1	(s) 0.1	H 673
018 019	16.7 13.8	295.1 303.0	1.5	0.0	0.0	1.5	334.4 278.1	R 0.1	12.5 10.7	0.0 0.0	R 2.9 R 3.5	R 0.1 R 0.1	0.1 0.0	R 663 R 609
019	13.8	234.1	0.4 0.2	0.0 0.0	0.0 0.0	0.4 0.2	278.1 279.3	0.1	9.9	0.0	R 4.0	R 0.1	0.0	R 539
2021	12.6 6.2	228.8 259.1	0.2 0.9	0.0	0.0 0.0	0.2 0.9	R 293.5 295.3	R 0.1	9.5 4.9	0.0	H 4.2	R 0.1 0.1	0.0	R 549 571
2022	6.2	259 1	0.9	0.0	0.0	0.9	295.3	(s)	4.9	0.0	4.6	0.1	0.0	571

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, New Mexico

						Petroleum								
						retroicum				_	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				м	illion kilowatthoui	rs .	Thousan	d barrels
										_				
1960 1965	174 2.450	200 202	3,067 3,895	3,014 3,334	2,186 2,530	9,555 10.806	191 699	2,313 2,863	20,325 24.127	0	69 43	0 0	NA NA	NA NA
1965 1970	2,450 5,529	202 270	3,895 5,410	4,413	2,530 3,110	10,806 13,146	699 220	3,301	24,127 29,601	Ō	43 66	0	NA	NA
1971 1972	6,690 6,857	269 288	5,404 6,565	4,310 5,026	2,994 2,862	14,161 15,085	430 650	2,626 2,901	29,925 33,090	0	27 20	0	NA NA	NA NA
1973	7.534	257	7 647	4 520	2 723	16.060	1.588	3,487	36 026	0	65	0	NA NA	NA NA
1974 1975	7,930	257	6,922 6,717	4,338 3,865	2,749 2,667	15,719	1,588 2,374	3,941	36,043 36,955	0	73	Ō	NA	NA
1975 1976	7,425 7,698	240 279	6,717	3,865	2,667 2,440	16,493 17,423	3,046 2,454	4,166 4,114	36,955	0	63 76	0	NA NA	NA NA
1977	8,590	230	7,324 8,805	3,853 3,938	2.595	18,005	2.274	3.912	37,608 39,528	0	28	0	NA NA	NA NA
1978	8.079	214	9.512	3.604	2,338 2,647	18.922	1,333 1,041	4,247 4,554	39,956 40,143	0	30	0	NA	NA
1979 1980	8,563 11,458	211 222	9,429 7,967	4,496 4,710	2,647 2,673	17,976 16,913	1,041	4,554 4,639	40,143 37,937	0	68 94	0	NA NA	NA NA
1981	10,750	196	12,471	3,120	2,673	16,972	1,033 854 792	4,639 3,457	37,937 39,428	0	88 88	0	NA 0	NA NA
1982	12.312	204	7.978	2.720	2,554 2,629	17.144	792	3,521	39,428 34,784	Ö	79	Ö	3	NA
1983 1984	14,469 13,979	179 162	6,754 6,369	2,736 5,716	2,638 2,999	17,088 17,447	3,441 2,287	5,461 3,582	38,118 38,401	0	89 94	0	62	NA NA
1985	14,589	151	7 381	3,002	2,999	17,447	2,207 825	3,075	35,401	0	128	0	143 142	NA NA
1985 1986	13.245	151 134	7,381 8,464	1,757	2,873 2,783	18,298	825 263 87	3,099	35,061 34,664	Ö	128 166	0	128	NA
1987	14,395 14,715	153 173	8,810	1,537	2,983 2,812	18,941 19,302	87	3,698	36 056	0	164	0	242 359	NA NA
1988 1989	15,295	196	8,685 7,951	1,497 3,879	2,812	18,897	120 182	3,926 3,598	36,342 37,356	0	100 232	0	495	NA NA
1990	15,111	239	7.973	7,943 11,735	2,912	18 647	148 128	3,391	41,013 45,306	ŏ	205	ŏ	371	NA
1991	12,858	219	8,359	11,735	2,441	19,148	128	3.496	45,306	0	237	0	365	NA
1992 1993	14,832 15,012	203 217	8,697 7,615	10,457 9,616	2,834 3,303	19,432 20,394	128 181	4,083 4,540	45,631 45,650	0	255 294	0	288 59	NA NA
1994	15.374	221	6.806	8.767	2.576	20.806	176	4.294	43.425	Ŏ	213	ŏ	153	NA
1995	15,221	215	5,067	8,191	2,222	21,014	179 195	3,948	40,620	0	264	0	472	NA NA
1996	15,297 15,886	227 257	10,049 10,797	2,015	1,615 1,752	20,247	195 158	4,146 3,750	38,266 40,629	0	211 259	0	398 399	NA NA
1997 1998	15.963	246	11.377	2,667 2,801	1,752 2,198	21,505 21,918	158 136	3,750 4,288	40,629 42,718	Ö	236	Ō	671	NA
1999 2000	16,303 16,585	236 266	11,605 11,937	4,115 2,856	2,723 3,017	22,189 21,247	141	4,195	44 969	0	243	0	560	NA
2000	16,585	266 266	11,93 <i>7</i> 12,419	2,856 4,411	3,017 3,065	21,247 21,655	136 96	3,958 3,153	43,151 44,799	0	221 237	0	638 212	NA 2
2002	16,031 15,275	235	12,396	3,587	2,510	22,357	131	4,245	45,226	0	265	0	183	4
2003	16,625	221	13.402	2.842	2,438	22,669	157	4.394	45 901	0	171	183	148	3
2004 2005	16,745 17,116	221 224 221	14,151 14,371	2,769 2,842	2,274 2,283	23,249 23,014	105 87	4,651 4,515	47,199 47,110	0	139 165	513 795	160 301	3 6 22 62 84 73 77 62 212
2006	17.044	224	15.772	3.155	2,263	23,340	138	4.873	49.632	0	198	1.255	292	62
2006 2007	16,039	224 234	15.643	3,155 7,307	2,353 1,943	23,340 22,935	138 158	4,873 5,189	49,632 53,176	0	198 268	1,255 1,393	377	84
2008 2009	15,462 16,572	247 241	14,123 12,487	2,645 2,349	1,798 1,338	22,145 23,082	229 10	4,531 4,026	45,471 43,292	0	312 271	1,643 1,547	804 1,189	73
2010	14.580	241	13.699	2.228	1 634	21 726	34	4.375	43 696	0	217	1.832	2.306	62
2011	15,519	246	14,370	2,077	1,523 1,501	22,521 22,633	0	4,559	45,050 45,183	Ö	195 223	2,104	2,306 2,327 2,289	212
2012 2013	14,494 14,321	244 246	14,598	1,991	1,501 1,469	22,633	0	4,461 4,193	45,183	0	223	2,226	2,289	264
2013	11,973	248	14,952	2,202	1,409	22,392 22,779	0	3,966	45,209 46,469	0	92 98 99	2,193 2,275	2,000 1,897	299 326
2015	11,950	251	14,952 16,295 15,831	2,202 2,000 1,831	1,474	23.260	ŏ	3 083	45,209 46,469 46,380	Ö	99	2,275 2,090	2,088 1,897 2,424	299 326 317
2016 2017	10,620 10,566	248 239	16,007 17,238	1,815 1,677	1,418 1,509	22,933 24,321	0	R 3,861 R 3,884 R 3,979 R 3,972	R 46,035 R 48,630 R 49,961	0	148 193	3,605 4,595	2,376 2,531	320 355 393 415
2017	7.335	272	17,238	1.913	1.397	24,321	0	R 3,979	R 49,961	0	150	4,595 6,092	2,531	393
2019	8,208	296	19,576	1,864 1,795	1,433	24,064	Ö	R 3,972	H 50.910	Ö	158	6,892	2,279 2,529 2,285	415
2020	7,506	296 R 285 R 277	18,134 R 19,808	1,795	981	21,544 24,194	0	R 3,644 R 3,721	H 46.098	0	203 123	7,224 10,581	2,285	409
2021 2022	7,132 7,432	293	19,808	1,939 2,100	1,115 1,520	24,194 22,890	0	3,721	R 50,777 49,218	0	123 121	10,581 14,435	2,583 2,450	345 330
	.,.52		.0,001	2,.50	.,520	22,000		0,017	.0,210		.= '	, .50	_,.50	

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New Mexico (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
		Natural gas	Distillate			Petroleum Motor					Natural gas	Distillate	Motor
Year	Coal	excluding supplemental gaseous fuels <sup>a</sup>	fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	including supplemental gaseous fuels <sup>a</sup>	fuel oil including biofuels <sup>a</sup>	gasoline including fuel ethanol <sup>a</sup>
1960	4.1	207.3	17.9	11.5	11.7	50.2	1.2	14.2	106.6	318.0	207.3	17.9	50.2
1965 1970	44.3 99.4	224.3	22.7	12.7 16.6	13.7 17.0	56.8	4.4	17.7	128.0 155.7	396.5	224.3 292.5	22.7 31.5	56.8
1970	120.7	292.5 291.7	31.5 31.5	16.2	16.3	69.1 74.4	1.4 2.7	20.2 16.0	157.1	547.6 569.5	292.5 291.7	31.5 31.5	69.1 74.4
1972	123.8	311.9	38.2	18.8	15.6	79.2	4.1	17.7	173.7	609.4	311.9	38.2	79.2
1973	134.5	274.0	44.5	16.8	14.9	84.4	10.0	21.1	191.7	600.2	274.0	44.5	84.4
1974 1975	140.9 132.5	273.4 255.6	40.3 39.1	16.1 14.2	15.0 14.6	82.6 86.6	14.9 19.1	24.2 25.8	193.1 199.5	607.5 587.6	273.4 255.6	40.3 39.1	82.6 86.6
1975	137.5	294.9	42.7	14.2	13.4	91.5	15.4	25.6 25.4	202.5	634.8	294.9	39.1 42.7	91.5
1977	153.9	242.9	51.3	14.3	14.2	94.6	14.3	23.9	212.6	609.4	242.9	42.7 51.3	91.5 94.6
1978	145.7	225.5	55.4	13.0	12.8	99.4	8.4	26.1	215.1	586.3	225.5	55.4	99.4
1979 1980	152.9 202.9	223.1 231.3	54.9 46.4	16.4 17.1	14.5 14.6	94.4 88.8	6.5 6.5	27.9 28.0	214.6 201.4	590.6 635.6	223.1 231.3	54.9 46.4	94.4 88.8
1981	196.9	205.4	72.6	11.2	13.9	89.2	5.4	21.5	213.8	616.1	205.4	72.6	89.2
1982	196.9 225.5	213.3	46.5	9.9	14.3	90.1	5.0	22.0	187.7	626.6	213.4	46.5	90.1
1983 1984	263.7 252.9	184.6 169.8	39.3 37.1	10.0 19.9	14.4 16.4	89.8 91.6	21.6	33.4 22.7	208.5 202.0	656.8 624.7	184.6 169.8	39.3 37.1	89.8
1985	268.4	162.3	43.0	11.3	15.7	94.1	14.4 5.2	19.5	188.7	619.4	162.3	43.0	91.6 94.1
1986	241.6	144.5	49.3	6.6	15.2	96.1	1.7	19.8	188.6	574.8	144.5	49.3	96.1
1987	260.7	164.6	51.3	5.8	16.4	99.5	0.5	23.6	197.1	622.4	164.6	51.3	99.5
1988 1989	266.1 279.8	185.2 205.1	50.6 46.3	5.6 14.2	15.4 15.6	101.4 99.3	0.8 1.1	24.9 22.6	198.7 199.1	650.0 684.1	185.2 205.1	50.6 46.3	101.4 99.3
1990	275.7	251.5	46.4	28.2	16.0	98.0	0.9	21.2	210.8	737.9	251.5	46.4	98.0
1991	234.3	227.3	48.7	41.0	13.5	100.6	0.8	22.0	226.5	688.2	227.3	48.7	100.6
1992 1993	267.5 270.3	211.1 225.0	50.7 44.4	36.7 33.4	15.6 18.3	102.1 106.2	0.8 1.1	25.6 28.8	231.4 232.2	710.0 727.5	211.1 225.0	50.7 44.4	102.1 106.4
1993	278.4	221.5	39.6	30.9	14.6	107.9	1.1	27.1	221.3	721.1	221.5	39.6	108.5
1995	275.2	219.5	29.5	28.8	12.6	107.7	1.1	24.9	204.6	699.3	219.5	29.5	109.4
1996	279.1	233.6	58.5	7.4 9.7	9.2	104.1	1.2	25.8	206.2	718.9	233.6	58.5	105.5
1997 1998	288.5 290.4	261.9 241.4	62.8 66.2	10.4	9.9 12.5	110.6 111.7	1.0 0.9	23.2 27.0	217.2 228.6	767.6 760.4	261.9 241.4	62.8 66.2	111.9 114.0
1999	298.1	231.3	67.5	15.1	15.4	113.5	0.9	26.3	238.8	768.2	231.3	67.5	115.4
2000	305.5	259.0	69.5	10.8	17.1	108.3	0.9	24.9	231.4	795.9	259.0	69.5	110.5
2001 2002	297.1 284.1	259.6 229.7	72.3 72.1	16.8 13.6	17.4 14.2	111.9 115.6	0.6 0.8	19.4 26.7	238.3 243.1	795.0 757.0	259.6 229.7	72.3 72.1	112.6 116.2
2002	305.6	225.2	78.0	10.8	13.8	117.3	1.0	27.6	248.5	779.3	225.2	78.0	117.8
2004	309.4	229.2	82.3	10.5	12.9	120.2	0.7	29.3	248.5 255.9	779.3 794.4	229.2	82.3	120.8
2005	317.9	225.4	83.6	10.7 11.9	12.9 13.3	118.4 120.0	0.5 0.9	28.3	254.6 268.3	797.9	225.4 227.7	83.6 91.5	119.5
2006 2007	316.2 296.1	227.7 239.9	91.5 90.5	25.8	11.0	116.6	1.0	30.6 32.8	268.3 277.6	812.1 813.6	239.9	91.5 90.5	121.0 117.9
2008	284.3	252.8	81.6	10.0	10.2	110.3	1.4	28.4	241.9	779.1	252.8	81.6	113.1
2009	306.2	247.9	71.4	8.9	7.6	113.4	0.1	25.2	226.6	780.7	247.9	72.1	117.5
2010 2011	267.5 284.7	246.2 251.8	78.6 81.6	8.6 8.0	9.3 8.6	102.1 106.0	0.2 0.0	27.3 28.5	226.0 232.6	739.7 769.2	246.2 251.8	79.1 82.9	110.1 114.0
2012	263.4	249.8	82.7	7.6	8.5	106.6	0.0	27.9	233.4	746.6	249.8	84.2	114.6
2013	256.4	252.9	83.5	8.5	8.3	106.1	0.0	26.1	233.4 232.5	741.7	252.9	86.2	113.3
2014 2015	215.3 215.7	256.1 260.0	91.3 88.3	7.7 7.0	8.1 8.4	108.7 109.2	0.0 0.0	24.7 24.8	240.4 237.7	711.8 713.4	256.1 260.0	93.9 91.2	115.2 117.6
2015	197.1	259.2	88.4	7.0	8.0	109.2	0.0	24.5	235.5	691.8	259.2	91.2 92.2	115.9
2017	199.1	249.4	95.4	6.4	8.6	114.1	0.0	R 24.6	R 249.1 R 257.6	R 697 6	249.4	99.2	122.9
2018	136.8	281.3	103.2	7.3	7.9	113.9	0.0	R 25.3 R 25.2	H 257.6 R 262.4	R 675.8 R 719.4	281.3	106.9	121.8
2019 2020	151.5 139.0	305.5 R 292.6	109.2 _ 100.5	7.2 6.9	8.1 5.6	112.8 100.9	0.0 0.0	R 23.1	R 236.9	R 668.5	305.5 R 292.6	112.7 _ 104.4	121.6 108.8
2021	133.2	<sup>H</sup> 285.8	R 112.4	7.4	6.3	113.2	0.0	H 23.5	<sup>R</sup> 261.7	<sup>R</sup> 680.8	H 285.8	R 114.2	122.2
2022	138.1	302.0	108.2	8.1	8.6	107.0	0.0	23.0	253.9	694.0	302.0	109.9	115.6

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New Mexico (continued) (trillion Btu)

							Renewable en	ergy							
					Bion	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 0.2	6.6	NA	NA	NA	NA	6.6	0.0	NA	NA	R 6.9	R-1.7	0.0	R 323.2
1965 1970	0.0 0.0	R 0.1 R 0.2	5.6	NA NA	NA NA	NA NA	NA NA	5.6	0.0 0.0	NA NA	NA NA	R 5.8 R 5.1	R -54.5 R -101.1	0.0 0.0	R 347.8 R 451.6
1971	0.0	R 0.1	4.9 4.7	NA	NA	NA	NA	4.9 4.7	0.0	NA	NA	R 5.1 R 4.8	R -101.1 R -112.6	0.0	R 451.6 R 461.6
1972 1973	0.0 0.0	R 0.1 R 0.2	4.5 4.2	NA NA	NA NA	NA NA	NA NA	4.5 4.2	0.0 0.0	NA NA	NA NA	R 4.6	R -120.3 R -134.8 R -144.3 R -141.9	0.0 0.0	R 493.8 R 469.9
1973	0.0	R 0.3	4.2	NA NA	NA NA	NA NA	NA NA	4.2	0.0	NA NA	NA NA	R 4.4 R 4.4	R -144.3	0.0	H 467 6
1975	0.0	R 0.2	5.3	NA	NA	NA	NA	5.3	0.0	NA	NA	R 5 6	R -141.9	0.0	R 451.3 R 501.1 R 467.1
1976 1977	0.0 0.0	R 0.3 R 0.1	6.0 7.0	NA NA	NA NA	NA NA	NA NA	6.0 7.0	0.0 0.0	NA NA	NA NA	R 6.3 R 7.1 R 7.8	R -140.0 R -149.5 R -126.8	0.0 0.0	R 467 1
1978	0.0	R 0.1	7.7	NA	NA	NA	NA	7.7	0.0	NA	NA	R 7.8	R -126.8	0.0	H 467.3
1979 1980	0.0 0.0	R 0.2 R 0.3	9.2 5.2	NA NA	NA NA	NA NA	NA NA	9.2 5.2	0.0 0.0	NA NA	NA NA	R 9.5 R 5.6 R 7.1 R 7.5	R -127.7 R -168.8 R -158.3 R -178.3	0.0 0.0	R 472.4
1980	0.0	R 0.3	5.2 6.7	0.0	NA NA	NA NA	0.1	5.2 6.8	0.0	NA NA	NA NA	R 7.1	R -158.3	0.0	R 465.0
1982	0.0	R 0.3	6.9	(s) 0.2	NA	NA	0.3	7.2	0.0	NA	NA	R 7.5	R -178.3	0.0	R 472.4 R 475.4 R 465.0 R 455.8 R 462.9 R 463.5 R 456.0
1983 1984	0.0 0.0	R 0.3 R 0.3	7.4 7.7	0.2 0.5	NA NA	NA NA	0.6 0.8	8.3 8.9	0.0 0.0	NA 0.0	0.0 0.0	R 8.6 R 9.3	R -202.5 R -170.5 R -173.0	0.0 0.0	<sup>n</sup> 462.9 R 463.5
1985	0.0	R 0.4	7.9	0.5	NA	NA	0.8	9.2	0.0	0.0	0.0	Ras	R -173.0	0.0	R 456.0
1986 1987	0.0	R 0.6	8.1 5.1	0.4	NA	NA	0.8	9.4	0.0	0.0 0.0	0.0	R 10.0	R -140.5 R -153.5 R -155.6 R -167.5	0.0	11 444 2
1987	0.0 0.0	R 0.6 R 0.3	5.1 5.4	0.8 1.2	NA NA	NA NA	0.9 0.9	6.9 7.6	0.0 0.0	0.0	0.0 0.0	R 7.4 R 7.9	H -153.5 R -155.6	0.0 0.0	R 476.3 R 502 4
1989	0.0	Rng	4.2	1.7	NA	NA	0.9	6.8	0.1	0.6	0.0	Rag	R -167.5	0.0	R 502.4 R 524.8
1990	0.0 0.0	R 0.7 R 0.8	3.9	1.3	NA NA	NA NA	0.7	5.9 6.2	0.1	0.6	0.0	H 7.3	R -148.5 R -106.1	0.0	R 596.7 R 589.8
1991 1992	0.0	н н н	4.1 4.2	1.3 1.0	NA NA	NA NA	0.8 0.7	6.0	0.1 0.1	0.6 0.6	0.0 0.0	R 7.3 R 7.7 R 7.5	H -130 Q	0.0 0.0	H 586.6
1993	0.0	R 1 0	4.1 3.9	0.2	NA	NA	0.8	5.1 5.2	0.1	0.6 0.6	0.0 0.0	R 6.8 R 6.7	R -132.6 R -137.7	0.0	R 601 7
1994 1995	0.0	R 0.7 R 0.9	3.9 4.0	0.5 1.6	NA NA	NA NA	0.8 0.7	5.2	0.1 0.2	0.6 0.6	0.0 0.0	R 8.0	n -137.7 R -125.6	0.0 0.0	R 590.2 R 581.6
1996	0.0	R 0.7	4.0	1.4	NA	NA	0.3	6.3 5.7	0.2	0.6	0.0	R 7.1 R 8.0	R -125.6 R -121.6	0.0	R 581.6 R 604.5
1997	0.0	R 0.9 R 0.8	4.5	1.4	NA	NA	0.5	6.4	0.2 0.2	0.5	0.0	R 8.0 R 8.4	R -132.2 R -133.4	0.0	R 643.5 R 635.4
1998 1999	0.0 0.0	R 0.8	4.0 4.2	2.3 1.9	NA NA	NA NA	0.6 0.5	6.9 6.6	0.2 0.6	0.5 0.5	0.0 0.0	''8.4 R86	R -133.4	0.0 0.0	R 639.2
2000	0.0	HUS	4.4	2.2	NA	NA	0.6	6.6 7.2	0.7	0.4	0.0	R 8.6 R 9.1	R -137.6 R -143.2	(s)	H 661.8
2001 2002	0.0 0.0	R 0.8 R 0.9	3.0 2.9	0.7 0.6	(s) (s)	NA NA	0.6 0.9	4.3 4.4	0.7 0.7	0.4	0.0	R 6.3 R 6.4	R -140.5 R -104.7	0.ó 0.1	R 660.8
2002	0.0	Ros	2.8	0.5	(S) (S)	NA NA	1.0	4.4	0.7	0.3 0.3	0.0 R 0.6	R64	H-1262	0.1	R 658.7 R 659.6
2004	0.0	R 0.5	2.9	0.6	(s)	NA	0.9	4.3	0.6	0.2	H1Ω	H74	H-1198	0.2	H 682 3
2005 2006	0.0 0.0	R 0.6 R 0.7	10.8 10.1	1.0 1.0	0.1 0.3	NA NA	1.2	13.1 13.1	0.7 0.7	0.2	R 2.7 R 4.3 R 4.8	R 17.3 R 18.9	R -133.5 R -144.4	-0.1 -0.1	R 681.6
2007	0.0	H 0.9	11.2	1.3	0.5	NA	1.6 1.7	14.7	0.7	0.2 0.2	R 4.8	H 21 3	R -144.4 R -125.9	-0.1	R 686.6 R 708.8
2008	0.0	R 1.1 R 0.9	12.5	2.8	0.4	NA	1.2	16.9	0.3	0.2	R 5.6 R 5.3 R 6.3	R 24.1 R 21.7	R -133.2 R -164.4 R -121.5	-0.3	R 669.8
2009 2010	0.0 0.0	R 0.7	9.0 9.5	4.1 8.0	0.4 0.3	NA NA	1.5 1.4	15.0 19.2	0.3 0.3	R 0.2	R 6.3	R 26.8	R -121.5	-0.3 -0.1	R 637.6 R 644.9
2011	0.0	R 0.7	8.4	8.1	1.1	0.0	1.3	18.8	0.4	R 0.7	H72	R 27.8	n -135.6	0.1	R 661.5 R 657.5
2012 2013	0.0 0.0	R 0.8 R 0.3	7.2 9.3	7.9 7.2	1.4 1.6	0.0 0.0	1.1 1.4	17.7 19.5	0.4 0.4	R 0.2 R 0.2 R 0.7 R 1.5 R 1.8 R 2.4	R 7.6 R 7.5	R 27.9 R 29.5	R -117.1 R -111.2	0.1 0.1	H 657.5 R 660.1
2013	0.0	R 0.3	9.3	6.6	1.7	0.0	1.2	18.9	R 0.4	R 2.4	R 7 Q	R 29.8	H -74.7	0.1	R 660.1 R 666.9
2015	0.0	R 0.3 R 0.5	R 10 6	8.4	1.7	0.0	0.0	20.8	R 0.4	R 2.8	R 7.1	H 31 4	R -78.2	(s)	H 666 7
2016 2017	0.0 0.0	R 0.5 R 0.7	R 11.0 _ 9.7	8.3 8.8	1.7 1.9	0.0 0.0	0.0 0.0	21.0 20.4	R 0.4 R 0.4	R 2.8 R 3.3 R 5.0	R 7.1 R 12.3 R 15.7	R 37.5 R 42.1	R -78.1 R -83.7 R -59.8 R -75.3	(s) (s)	R 651.3 R 656.0
2018	0.0	R 0.5	R 13.1	7.9	2.1	0.0	0.0	23.2	R n 4	H F 7	n 20 8	H 50 5	R -59.8	(s)	H 666.5
2019 2020	0.0 0.0	R 0.5 R 0.7	15.3 R 9.6	8.8 7.9	2.2 2.2	0.0 0.0	0.0 0.0	R 26.3 R 19.7	R 0.6 R 0.5	R 5.9 R 7.4	R 23.5 R 24.6	R 56.8 R 53.0	R -75.3 R -65.0	0.0 0.0	R 700.9 R 656.5
2020	0.0	R 0.4	R 10.3	9.0	1.8	0.0	0.0	R 21.1	R 0.5	R 7.8	R 36.1	R 65.9	R -63.5	0.0	R 683.2
2022	0.0	0.4	12.6	8.5	1.8	0.0	0.0	22.9	0.5	9.0	49.3	82.0	-88.5	0.0	687.6

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, New Mexico

							Petroleum					Bior	nass						
•			Natural	Distillate		Jet	Motor	Residual	(		Hydro- electric								
	-	Coal	gas <sup>a</sup>	fuel oil b	HGL <sup>c</sup>	fuel d	gasoline e	fuel oil	Other <sup>f</sup>	Total	power <sup>g,h</sup>	Wood	Losses			Electricity		Electrical system	
_	/ear	Thousand short tons	Billion cubic feet			1	housand barrels	<b>S</b>			Million kilowatt- hours	and waste <sup>h,i</sup>	and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	energy losses <sup>n</sup>	Total h,m
19	960	148	167	3,057	3,014	2,186	9,555	84	2,313	20,208	0					3,383			
	970	12	215	5,402	4,413	3,110	13,146	134	3,301	29,507	0					5,603			
	980	52	166	7,751	4,710	2,673	16,913	858	4,639	37,545	0					8,778			
	990 000	46 82	213 220	7,936 11,870	7,943 2,856	2,912 3,017	18,647 21,247	115 136	3,391 3,958	40,944 43,084	0					13,821 18,801			
	005	82	180	14,306	2,842	2,283	23,014	87	4,515	47,046	0					20,639			
20	006	83	168		3,155	2,353	23,340	138	4,873	49,559	0					21,435			
	007	80	173	15,561	7,307	1,943	22,935	158	5,189	53,094	0					22,267			
	008 009	64 59	178 171	14,022 12,402	2,645 2,349	1,798 1,338	22,145 23,082	229 10	4,531 4,026	45,370 43,206	0					22,038 21,647			
	010	44	171	13,607	2,349	1,634	21,726	34	4,026	43,206	0					22,428			
	)11	23	173		2,077	1,523	22,521	0	4,559	44,978	ő					23,042			
20	12	42	170	14,511	1,991	1,501	22,633	0	4,461	45,095	0					23,179			
	13	51	171	14,842	2,202	1,469	22,392	0	4,193	45,098	0					23,065			
	)14 )15	60 69	171 172	16,171 15,705	2,000 1,831	1,428	22,779 23,260	0	3,966 3,983	46,345 46,254	0					23,115 23,094			
	)15 )16	73	166	15,705	1,831	1,474 1,418	23,260	0	8 3,983 R 3.861	R 45,934	0					23,094			
	)17	72	164	17,158	1,677	1,509	24,321	0	R 3,884	R 48,549	0					23,010			
	18	73	173		1,913	1,397	24,101	0	R 3,979	R 49,919	0					24,049			
	19	60	193	18,873	1,864	1,433	24,064	0	R 3,972	R 50,207	0					24,880			
	20	64	R 185 R 195	18,066 R 19,741	1,795	981	21,544	0	R 3,644 R 3,721	R 46,030 R 50,710	0					24,777			
	)21 )22	57 62	203	19,741	1,939 2,100	1,115 1,520	24,194 22,890	0	3,721	49,180	0					25,394 27,156			
_				-7	,	,	,,,,,		-,-	Trillion	Btu					,			
10	960	3.4	172.4	17.8	11.5	11.7	50.2	0.5	14.2	105.9	0.0	6.6	NA	NA	NA	11.5	299.9	R 23.3	R 323.2
	970	0.3	233.1	31.5	16.6	17.0	69.1	0.8	20.2	155.2	0.0	4.9			NA.	19.1	412.4	R 39.2	R 451.6
19	980	1.0	173.4	45.1	17.1	14.6	88.8	5.4	28.0	199.0	0.0	5.2	NA	NA	NA	30.0		_R 63.7	R 472.4
	990	1.0	225.1	46.2	28.2	16.0	98.0	0.7	21.2	210.3	0.0	3.7		0.1	0.6	47.2		R 106.7	R 596.7
	000	2.1	212.5 183.9	69.1 83.2	10.8	17.1 12.9	110.5	0.9 0.5	24.9 28.3	233.2 255.3	0.0	4.3 10.8			0.4	64.1 70.4	518.0 524.5	R 143.8 R 157.0	<sup>R</sup> 661.8 <sup>R</sup> 681.6
	005	2.0	171.7	91.1	10.7 11.9	13.3	119.5 121.0	0.5	30.6	268.8	0.0	9.9			0.2	70.4	524.5 528.5	R 158.1	R 686.6
	007	2.0	177.7	90.0	25.8	11.0	117.9	1.0	32.8	278.5	0.0	10.9			0.2	76.0		R 160.7	R 708.8
	800	1.6	182.9	81.0	10.0	10.2	113.1	1.4	28.4	244.2	0.0	12.0			0.2	75.2		R 151.8	R 669.8
	009	1.5	175.9	71.6	8.9	7.6	117.5	0.1	25.2	230.9	0.0	8.5			0.2	73.9	492.6	R 145.3	R 637.9
	)10 )11	1.1 0.6	174.0 176.9	78.6 82.5	8.6 8.0	9.3 8.6	110.1 114.0	0.2 0.0	27.3 28.5	234.0 241.6	0.0	9.2 8.2			R <sub>0.2</sub> R <sub>0.3</sub>	76.5 78.6	R 496.7 R 507.9	R 148.4 R 153.9	R 645.1 R 661.7
	)12	1.0	176.9	83.7	7.6	8.5	114.6	0.0	27.9	241.6	0.0	6.9		0.4	R 0.4	79.1	R 504.5	R 153.9	R 657.5
	013	1.2	175.9		8.5	8.3	113.3	0.0	26.1	241.7	0.0	8.9			R <sub>0.5</sub>	78.7	R 508.6	R 152.5	R 661.1
	14	1.4	176.5	93.2	7.7	8.1	115.2	0.0	24.7	248.9	0.0	9.0			R <sub>0.6</sub>	78.9	R 517.0	R 150.8	R 667.8
	15	1.7	178.8	90.5	7.0	8.4	117.6	0.0	24.8	248.3	0.0	10.2	0.0		R 0.7	78.8	R 518.8	R 149.1	R 667.9
	)16 )17	1.8 1.8	173.8 170.6	91.6 98.8	7.0 6.4	8.0 8.6	115.9 122.9	0.0	24.5 R 24.6	247.0 R 261.3	0.0	R 10.7 R 9.3	0.0		R <sub>0.7</sub> R <sub>0.9</sub>	78.6 78.5		R 140.3 R 135.2	R 653.3 R 657.9
	)17	1.8	170.6	98.8 106.7	7.3	7.9	122.9	0.0	R 25.3	R 269.1	0.0	R 12.7	0.0		R 1.1	78.5 82.1	R 546 2	R 121 9	R 668.1
	)19	1.5	199.0	108.7	7.2	8.1	121.6	0.0	R 25.2	R 270.7	0.0	R 15.0			R 1.2	84.9	R 572.6	R 129.6	R 702.3
20	020	1.6	R 190.3	104.0	6.9	5.6	108.8	0.0	R 23.1	R 248.4	0.0	R 9.3	0.0	0.4	R 1.5	84.5	H 535.9	R 122.3	R 658.2
	21	1.4	R 201.4	R 113.8	7.4	6.3	122.2	0.0	R 23.5	R 273.2	0.0	R 10.0			R 1.8	86.6			R 684.2
20	)22	1.5	209.6	109.7	8.1	8.6	115.6	0.0	23.0	265.0	0.0	12.3	0.0	0.4	2.2	92.7	583.6	104.9	688.6
_																			

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, New Mexico

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	25	20	3	1.371	17	1,391				872			
1965	25 6	24	2	1,371 1,445	14	1,461				988			
1970	(s)	31	3	1,907	29	1.939				1,475			
1975	Ó	28	5	1,208	27	1,240				1,957			
1980	9	29 22	11	1,150	132	1,294				2,453			
1985	2	22	15 8	1,990	41	2,046				3,098			
1990 1995		28 29	8	1,623 819	4 6	1,635 827				3,566 4,124			
2000	1	36	6	1,942	6	1,954				4,937			
2005	(s)	33	4	1,951	5	1,959				5,865			
2006	(s)	30	3	2.029	4	2.036				6,009			
2007	(s)	33	4	1,722	3	1,729				6,387			
2008	`ó	33 30 33 34 32 35 34	2	1,808	1	1.811				6.379			
2009 2010	0	32	1	1,814	1	1,816 1,635				6,504 6,752			
2010	0	35	1	1,634		1,635				6,752			
2011	0	34	]	1,479	(s)	1,480				6,874			
2012 2013	0	33	ı	1,270	(s) (s)	1,271 1,498				6,764 6,804			
2013	0	30	1	1,496 1,274	(S)	1,490				6,612			
2015	0	33	2	1,136	\s\ \s\	1,276 1,138				6,642			==
2016	Ŏ	33 36 32 33 33	1	1,258	(s)	1,259				6,643			
2017	Ö	30 34 42	1	1 047	(s)	1.047				6 497			
2018	0	34	1	1,156 1,251	(s)	1,156 1,253				6,826 6,872			
2019	0	42	2	1,251	(s)	1,253				6,872			
2020 2021	0	36 36	2	1,268	(s)	1,270				7,282 7,088			
2021 2022	0	36 37	1	1,311 1,291	(s)	1,312 1,292				7,088 7,283			
2022	U	37		1,291	(s)	1,292				7,203			
							Trillion Btu						
1960	0.6	21.1	(s)	5.3	0.1	5.4	5.7	NA	NA	3.0	35.7	R 6.0	R 41.7
1965	0.1	26.9	(s)	5.5	0.1	5.6	4.7	NA	NA	3.4	40.7	R 6.6	R 47.3 R 60.2
1970 1975	(s) 0.0	33.3 29.9	(s)	7.3 4.6	0.2 0.2	7.5 4.8	4.0 4.2	NA NA	NA NA	5.0 6.7	49.9 45.6	R 10.3 R 13.6	H FO O
1975	0.0	29.9 29.9	(s) 0.1	4.6	0.2	4.6 5.2	4.Z	NA NA	NA NA	8.4	45.6 47.6	H 13.0	N 59.3 R 65.4
1985	(s)	23.9	0.1	7.6	0.7	8.0	3.9 6.3	NA	NA NA	10.6	48.7	R 21 5	R 70.2
1990	(s)	29.7	(s)	6.2		6.3	3.1		0.6	12.2	51.9	R 27.5	R 79.5
1995	(s)	29.4	(s)	3.1	(s) (s)	3.2	3.1	(s) (s) (s) (s) (s) (s)	0.6	14.1	50.3	R 17.8 R 21.5 R 27.5 R 31.6	R 65.4 R 70.2 R 79.5 R 81.9 R 100.9 R 115.4 R 111.9 R 117.7
2000	(s)	34.8	(s)	7.5	(s)	7.5	3.6	(s)	0.4	16.8	63.2	R 37.8 R 44.6	R 100.9
2005	(s)	34.1	(s)	7.5	(s)	7.5	9.0	(s)	0.2	20.0	70.8	R 44.6	R 115.4
2006 2007	(s)	31.1 34.3	(s)	7.8	(s)	7.8 6.7	8.0 8.8	(s)	0.2 0.2	20.5 21.8	67.6	R 44.3 R 46.1 R 43.9	H 111.9
2007	(s)	34.3	(s)	6.6	(s)	6.7	8.8	(s)	0.2	21.8	71.8	<sup>n</sup> 46.1	n 117.9
2008 2009	0.0 0.0	34.9 33.3	(S)	6.9 7.0	(S)	7.0 7.0	9.9 6.9	(S)	0.2 0.2	21.8	73.7	H 43.9	" 117.7 B 112.2
2010	0.0	36.0	(5)	6.3	(s)	6.3	7.4	(8)	0.2	22.2 23.0	69.6 R 72.9	R 43.7 R 44.7	R 117.6
2011	0.0	35.1	(s)	5.7	(8)	5.7	7.2	(s) (s) (s) 0.1	R 0.2 R 0.3 R 0.3	23.5	H 71 7	R 45.9 R 44.6 R 45.0	R 113.2 R 117.6 R 117.6 R 112.2 R 119.3
2011 2012	0.0	35.1 33.2	(s)	4.9	(s)	5.7 4.9	6.0	0.1	R 0.3	23.1	R 67.5	R 44.6	R 112.2
2013	0.0	37.1	(s)	5.7	(s)	5.8	7.8	0.1	R 0.3	23.5 23.1 23.2	R 67.5 R 74.3	R 45.0	R 119.3
2014 2015	0.0 0.0	33.5 34.4	(s)	4.9	(s)	4.9	7.9	0.1	H04	22.6 22.7	R 69.3 R 70.7	R 43.1 R 42.9 R 40.5 R 38.2	R 113.4 R 113.6 R 111.5 R 104.1 R 109.8
2015	0.0	34.4	(s)	4.4	(s)	4.4	8.8	0.1	R 0.4	22.7	H 70.7	H 42.9	H 113.6
2016	0.0	34.0	(s)	4.8	(s)	4.8	9.0 R 7.8	0.1	R 0.5	22.7	R 71.1	n 40.5	n 111.5
2017	0.0 0.0	31.2	(S)	4.0 4.4	(S)	4.0	11.0	0.1 0.1	R 0.6 R 0.8	22.7 22.2 23.3	R 65.9 R 75.2	R 34.6	" 104.1 B 100.0
2018 2019	0.0	35.6 43.7	(8)	4.4	(S)	4.4 4.8	R 13.0	0.1	R 0.9	23.3	R 86.0	34.0 R 35.8	R 121.8
2020	0.0	45.7 37.5	(6)	4.0	(S) (S)	4.0	R 7 5	0.1	R 1 1	23.4 24.8	R 75 9	R 35 q	R 111 9
2020 2021	0.0 0.0	37.5 36.7	(s)	4.9 5.0	(s)	4.9 5.0	R 13.0 R 7.5 R 8.0	0.1	R 1.1 R 1.4 1.7	24.8 24.2	R 75.9 R 75.4	R 35.8 R 35.9 R 30.5	R 111.9 R 105.9
2022	0.0	37.8	(s)	5.0	(s)	5.0	10.3	0.1	4.7	24.8	79.7	28.1	107.9

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, New Mexico

					Pet	roleum				Biomass						
1	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowati		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	17	9	107	324	4	46	0	482	NA			NA	963			
1965 1970	17 5	13 33	65 114	324 341 450	4 8	46 54 70	0	482 464 642	NA NA			NA NA	1,485 2,216			
1975	(s) 0	23 25	179	285	7	91	0	562	NA			NA	2,743			
1980 1985	35 6	25 17	133 320	272 470	659 61	108 113	0	1,172 967	NA NA			NA NA	3,380 4,664			
1990	4	24	426	383	15	127	ó	951 457	0			(s)	5,842			
1995 2000	5	24 27	242 266	193 458	4 8	18 19	0	457 751	0			(s) (s)	6,641 8,371			
2005 2006	4	24 23	628 301	397 559	3	23 20	0	1,051 883	0			(s)	8,411 8,604			
2007	3	25 25 25	189	404	2	21	Ö	615	Ö			(s)	8,932			
2008 2009	0	25 25	599 271	421 338	(s) (s)	21 20	0	1,041 629	0			(s)	8,828 8,734			 
2010	ŏ	25 25 25 25	233	388 328	(s)	20	Ö	642	Ö				9,016			
2011 2012	0	25	240 220	408	(S) (S)	21 22	0	589 649	0			15 27	9,258 9,166			
2013 2014	0	27 26	219 294	370 378	(s)	23 20	0	611 693	0			45 67	8,983 8,976			
2015	0	25 25 25	298	299	(s)	380	Ö	977	ő			73	8,877			
2016 2017	0	25 24	260 173	296 315	(s)	380 386	0	936 874	0			64 76	8,806 8,784			
2018 2019	0	26 30	127 297	417 486	(s)	391 392	0	935	0			81 88	9,035 9,029			
2020	0	25 27	229	366	(s) 1	395	0	1,175 _ 990	0			96	8,407			
2021 2022	0	27 28	230 237	472 504	(s) (s)	401 432	0	R 1,103 1,174	0			120 136	8,656 9,084			
LULL			207	004	(5)	102		· · · · · · · · · · · · · · · · · · ·	lion Btu			100	0,004			
1960	0.4	9.3	0.6	1.2	(s)	0.2	0.0	2.1	NA	0.1	NA	NA	3.3	15.3	R 6.6	R 21.9
1960 1965	0.4 0.1	13.9	0.4	1.2 1.3	(s)	0.3	0.0 0.0	2.1 2.0	NA NA	0.1	NA	NA	3.3 5.1	15.3 21.2	R 10.0 R 15.5	R 21.9 R 31.2 R 61.7
1970 1975	(s) 0.0	35.8 24.5	0.7 1.0	1.7 1.1	(s) (s) 3.7	0.4 0.5	0.0 0.0	2.8 2.7	NA	0.1 0.1	NA NA	NA NA	7.6 9.4	46.2 36.6	R 19 1	R 55.7
1980 1985	0.7 0.1	25.7 18.2	0.8 1.9	1.0 1.8	3.7 0.3	0.6 0.6	0.0	6.1 4.6	NA NA	0.1 0.1	NA NA	NA NA	11.5 15.9	44.1 39.0	R 24.5 R 32.3	H 68.6 R 71 /
1990	0.1	25.0	2.5	1.5	0.1	0.7	(s) 0.0	4.7	0.0	0.3	(s) (s)	(s)	19.9	50.1	R 32.3 R 45.1 R 50.8	H 95 2
1995 2000	0.1 0.1	24.4 26.1	1.4 1.5	0.7 1.8	(s) (s)	0.1 0.1	0.0 0.0	2.3 3.4	0.0 0.0	0.4 0.6	(s) 0.1	(s) (s)	22.7 28.6	49.9 59.0	H 64.1	R 100.8 R 123.0
2005 2006	0.1 0.1	24.8 23.9	3.7 1.7	1.5 2.1	(s)	0.1 0.1	0.0 0.0	5.3 4.0	0.0 0.0	1.4 1.3	0.1 0.1	(s)	28.7 29.4	60.4 58.8	R 64.0 R 63.5	R 124.4 R 122.2
2007	0.1	25.5 25.9	1.1	1.6	(s) (s)	0.1	0.0	2.8	0.0	1.4	0.1	(s) (s)	30.5	60.3	R 64 5	H 124 8
2008 2009	0.0 0.0	25.9 25.4	3.5 1.6	1.6 1.3	(s) (s)	0.1 0.1	0.0 0.0	5.2 3.0	0.0 0.0	1.5 1.0	0.1 0.1	(s)	30.1 29.8	62.8 59.2	R 60.8 R 58.6	R 123.6 R 117.8
2010	0.0	25.7	1.3	1.5	(s)	0.1	0.0	2.9	0.0	1.0	0.1	R (s)	30.8	R 60.4	R 50 7	H 120 1
2011 2012	0.0 0.0	25.6 25.5	1.4 1.3	1.3 1.6	(s) (s)	0.1 0.1	0.0 0.0	2.8 2.9	0.0 0.0	0.9 0.8	0.1 0.1	0.1 R 0.1	31.6 31.3	R 61.0 R 60.7	R 61.8 R 60.5	R 122.8 R 121.2
2013	0.0	27.6	1.3	1.4	(s)	0.1	0.0	2.8	0.0	0.9	0.1	R <sub>02</sub>	30.6	R 62 2	R 59.4 R 58.6	H 121 6
2014 2015	0.0 0.0	26.6 26.0	1.7 1.7	1.5 1.1	(s) (s)	0.1 1.9	0.0 0.0	3.3 4.8	0.0 0.0	1.0 1.3	0.1 0.1	R 0.2 R 0.2	30.6 30.3	R 61.7 R 62.7	H 57.3	R 120.3 R 120.0
2016 2017	0.0 0.0	26.0 24.6	1.5 1.0	1.1 1.2	(s)	1.9 2.0	0.0 0.0	4.6 4.2	0.0 0.0	1.6 1.4	0.1 0.1	R 0.2 R 0.3	30.0 30.0	R 62.5 R 60.5	R 53.6 R 51.6	R 116.2 R 112.1
2018	0.0	26.9	0.7	1.6	(s)	2.0	0.0	4.3	0.0	<sup>R</sup> 1.6	0.1	Ros	30.8	H 64 0	R 45 8	R 109.8 R 116.3
2019 2020	0.0 0.0	30.6 26.2	1.7 1.3	1.9 1.4	(s)	2.0 2.0	0.0 0.0	5.6 4.7	0.0 0.0	1.9 1.7	0.1 0.1	R 0.3 R 0.3	30.8 28.7	R 69.2 R 61.7	R 47.0 R 41.5	R 116.3 R 103.2
2021	0.0	27.8	1.3	1.8	(s)	2.0	0.0	5.2	0.0	1.8	0.1	R 0.4	29.5	R 64.8	R 37.3	H 102.1
2022	0.0	28.6	1.4	1.9	(s)	2.2	0.0	5.5	0.0	1.9	0.1	0.5	31.0	67.6	35.1	102.7

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, New Mexico

					Petrol	eum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>		_		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet	'		Thousand	l barrels	,		Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960 1965	105 22	120 97	1,028	1,194 1,345	295 241	59	1,931 2,442	4,508 5,855	0				NA	1,548 1,299			
1965 1970	22 11	97	1,206 2,127	1,345 1,813	241 192	621 123	2,442 2,987	5,855 7,242	0				NA NA	1,299 1,911			
1970	0	121 95	2,127	2,160	145	1,342	2,987 3,854	9,800	0				NA NA				
1980	8	74	2,196	3,260	84	858	3,468	9,866	0				NA	2,945			
1985 1990	83 41	58 85	2,595 1,486	447 5,819	361 330	781 115	2,684 3,067	6,868 10,818	0	==			NA (s)	4,111 4,413			
1995	76	74	1,907	7.085	653	179	3,677	13,501	ő				(s)	5,651			
2000	76	111	2,271	438	346	136	3,648	6,838	0				(s)	5,492			
2005 2006	78 79	102 97	1,923 2,216	420 496	729 750	87 138	4,260 4,635	7,418 8,235	0	==			(s)	6,363 6,822			
2007	76 64	101	2,326	5,141	512	158	4,950	13,086	ő				(s)	6,948			
2008	64	105	2,320	304	469	229	4,236	7,557	0				(s)	6,831			
2009 2010	59 44	102 101	1,489 1,628	152 192	453 404	10 34	3,780 4,101	5,885 6,360	0				(s) (s)	6,409 6,660			
2011	23	106	1,624	256	406	0	4.288	6,573	ŏ				(s)	6,910			
2012	23 42 51	104	1,911	301	383 394	0	4,210	6,804	0				(s)	7,249			
2013 2014	60	99 104	2,024 2,505	320 330	394 342	0	3,940 3,693	6,678 6,870	0				1	7,278 7,527			
2015	69	105	1,528	374	568	Ö	3.692	6,162	ŏ				i	7,575			
2016	73	100	2,075	235	588	0	R 3,587 R 3,618	R 6,485	0				1	7,591			
2017 2018	72 73	101 103	2,350 2,383	307 308	591 625	0	R 3,618	R 6,866 R 7,031	0				1	7,728 8,187			
2019	60	108	2,261	125	586	ő	R 3.714	H 6.685	ő				i	8,980			
2020	64 57	R 110 R 122	1,549	143	592	0	R 3,404 R 3,256	R 5,688 R 6,050	0				1	9,088			
2021 2022	62	127	2,101 2,124	153 298	539 591	0	3,181	6,194	0				i	9,650 10,790			
									Trillion Bt	u							
1960	2.4	124.5	6.0	4.5 5.1	1.6	0.4	12.1	24.5	0.0		NA	NA	NA	5.3	157.4	R 10.7 R 8.7	R 168.1
1965 1970	0.5 0.2	107.1 131.2	7.0	5.1	1.3	3.9	15.4	32.7 39.2	0.0	0.9 0.7	NA NA	NA NA	NA NA	4.4 6.5	145.6 177.8	H 8.7 R 13.4	R 154.3 R 191.2
1970	0.2	102.6	12.4 13.4	6.6 7.6	1.0 0.8	0.8 8.4	18.4 24.0	54.2	0.0	1.1	NA NA	NA NA	NA NA		164.5	<sup>n</sup> 13.7	R 178.2
1980	0.2	77.6	12.8	11.5	0.4	5.4	21.4	51.5	0.0	1.2	NA	NA	NA	10.0	140.6	R 21.4	H 161.9
1985 1990	1.8 0.9	63.5 90.0	15.1 8.7	1.5 20.1	1.9 1.7	4.9 0.7	17.2 19.3	40.7 50.5	0.0 0.0	1.4 0.3	0.8 0.7	NA 0.1	NA (s)	14.0 15.1	122.2 157.5	R 28.5 R 34.1	R 150.7 R 191.6
1995	1.7	75.1	11.1	24.5	3.4	1.1	23.3	63.5	0.0		0.7	0.1	(s)	19.3	160.6	R 43 2	R 203.9
2000	1.9	107.1	13.2	1.5	1.8	0.9	23.1	40.4	0.0	0.2	0.6	0.6	(s)	18.7	169.6	R 42 n	R 211.6
2005 2006	1.9 1.9	104.7 98.6	11.2 12.9	1.4 1.7	3.8 3.9	0.5 0.9	26.9 29.2	43.8 48.5	0.0 0.0		1.2 1.6	0.6 0.6	(s) (s)	21.7 23.3	174.2 175.2	R 48.4 R 50.3	R 222.6 R 225.5
2007	1.9	103.8	13.5	17.4	2.6	1.0	31.4	65.9	0.0	0.6	1.7	0.6	(s)	23.7	198.2	R 50.3 R 50.2 R 47.1	R 225.5 R 248.4
2008	1.6	108.0	13.4	1.0	2.4	1.4	26.7	45.0	0.0	0.6	1.2 1.5	0.3	(s)	23.3	179.9	R 47.1	H 227.0
2009 2010	1.5 1.1	105.0 103.2	8.6 9.4	0.5 0.7	2.3 2.0	0.1 0.2	23.8 25.7	35.2 38.1	0.0	0.6 0.8	1.5 1.4	0.2 0.2	(s) (s)	21.9 22.7	166.0 167.6	R 43.0 R 44.1	R 209.0 R 211.7
2011	0.6	108.7	9.4	1.0	2.1	0.0	26.9	39.3	0.0		1.3	0.2	(s)	23.6	173.8	R 46.1	R 219.9
2012	1.0	106.8	11.0	1.2	1.9	0.0	26.4	40.5	0.0	0.1	1.1	0.2	(s)	24.7	174.5	R 17 0	R 222.3
2013 2014	1.2 1.4	101.9 107.4	11.7 14.4	1.2 1.3	2.0 1.7	0.0 0.0	24.6 23.1	39.5 40.5	0.0	0.1 0.1	1.4 1.2	0.2 0.2	(s)	24.8 25.7	169.2 176.7	R 48.1 R 49.1	R 217.3 R 225.8
2015	1.7	109.2	8.8	1.4	2.9	0.0	23.1	36.2	0.0	0.1	0.0 0.0	0.2 0.2 0.2		25.8	173.3	R⊿g q	R 222.2
2016	1.8	104.8	11.9	0.9	3.0	0.0	22 9	29.7	0.0	0.1	0.0	0.2	(s) (s)	25.9	171.6	R 46 2	R 217.8
2017 2018	1.8 1.8	105.4 106.2	13.5 13.7	1.2 1.2	3.0 3.2	0.0 0.0	R 23.0 R 23.7	R 40.7 R 41.8	0.0 0.0		0.0 0.0	0.2 0.2	(s) (s)	26.4 27.9	R 174.6 R 178.0	R 45.4 R 41.5	R 220.1 R 219.5
2019	1.5	111 0	13.0	0.5	3.0	0.0	H 23 6	H // 1	0.0		0.0	0.2	(s)	30.6	H 184 4	R 46 8	H 231.2
2020	1.6	R 113 N	8.9	0.5 0.5 0.6	3.0	0.0	R 21.7 R 20.9	R 34.2 R 36.3	0.0	0.1	0.0	0.2 0.2	(s)	31.0	R 180.0	H 44 A	R 224.9
2021 2022	1.4 1.5	R 125.5 130.9	12.1 12.2	1.1	2.7 3.0	0.0 0.0	20.9	36.8	0.0		0.0	0.2	(s) (s)	32.9 36.8	R 196.4 206.3	R 41.6 41.7	R 237.9 248.0
	1.0	.50.0	,_,_		3.0	0.0	23.4	55.0	0.0	0.1	0.0	0.2	(0)	50.0	250.0	41.7	2.0.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, New Mexico

						Pe	etroleum							
1	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	2	17	201	1,919 2,618	124 203	2,186 2,530	159	9,213 10,511	25 36	13,826 16,301 19,684	0			
1965 1970	2 (s) (s)	25	239 111	2,618 3,158	203 243	2,530 3,110	159 165 166	10,511 12,884	36 11	16,301	0			
1970	(s) 0	17 25 30 29 38	81	4 200	211	2,667	197	12,004	0	23.615	0			
1980	Õ	38	81 167	5,411	29	2,673	197 213	16,257 16,721	Ö	23,615 25,214	Ö			
1985 1990	0	26 76	95 86 53	4,406 6,016	95 118	2,873 2,912	194 218	17,431 18,190	0	25,094 27,539	0			
1995	ŏ	57	53	2,871	94	2,222	208	20,342	Ö	25,790	ŏ			
2000	0	46	73 60	9,327	18	3,017	223	20,883	0	33,541	0			
2005 2006	0	20 18	60 49	11,752 13,179	74 71	2,283 2,353	188 183	22,262 22,570	0	36,617 38,405	0			 
2007	ŏ	14	49 46	13.043	39	1.943	183 189	22.403	Ö	38,405 37,664	ŏ			
2008 2009	0	14 12	118 87	11,101 10,641	112 45	1,798 1,338	175 158	21,655 22,609	0	34,960 34,877	0			
2009	0	9	48	11,744	14	1,634	225	22,809	0	34,877	0			
2011	Ö	7	45 42	12,434	15 13	1,523	225 209	22,094 22,228	Ö	36,335 36,372	Ö			
2012	0	8 9	42	12,379	13 17	1,501 1,469	209	22,228	0	36,372	0			
2013 2014	0	9	37 45	12,597 13,371	17	1,469	216 228	21,975 22,416	0	36,311 37,506	0	 		
2015	Ö	9	40	13,878	21	1,428 1,474	251	22,312	Ö	37 977	Ö			
2016 2017	0	9	42 38 39	13,571 14,633	26 9	1,418 1,509	251 R 233 R 228	21,965 23,344	0	R 37,254 R 39,762 R 40,797	0			
2017	0	10	39	16,018	34	1,397	R 225 R 219	23,084	0	R 40.797	0			
2019	Ō	12	40	16.312	3	1,433	R 219	23.087	Ō	n 41 094	Ö			
2020 2021	0	13 11	34 38	16,287 R 17,409	18 3	981 1,115	R 205 R 228	20,557 23,254	0	R 38,082 R 42,245	0			 
2022	0	12	40	16,664	6	1,520	230	21,867	0	40,520	0			
							Tri	llion Btu						
1960	(s)	17.6	1.0	11.2	0.5	11.7	1.0	48.4 55.2	0.2	73.9	0.0 0.0	91.5	0.0	91.5
1965 1970	(s) (s) (s)	27.6	1.2 0.6	15.3 18.4	0.8 0.9	13.7 17.0	1.0 1.0	55.2 67.7	0.2 0.1	87.4 105.7	0.0 0.0	115.0 138.5	0.0 0.0	115.0 138.5
1975	0.0	32.8 31.2	0.4	24.5	0.9	14.6	1.2	85.4	0.0	126.9	0.0	158.1	0.0	158.1
1980	0.0	40.2	0.8	31.5	0.1	14.6	1.3 1.2	87.8	0.0	136.2 134.9	0.0	176.4	0.0	176 4
1985 1990	0.0 0.0	28.2 80.4	0.5 0.4	25.7 35.0	0.4 0.5	15.7 16.0	1.2	91.6 95.6	0.0 0.0	134.9	0.0 0.0	163.6 230.4	0.0 0.0	163.6 230.4
1995	0.0	58.0	0.3	16.7	0.4	12.6	1.3 1.3	105.9	0.0	148.8 137.0	0.0	195.1	0.0	195.1
2000	0.0	44.5	0.4	54.3	0.1	17.1	1.4	108.6	0.0	181.8	0.0	226.3	0.0	226.3
2005 2006	0.0 0.0	20.4 18.1	0.3 0.2	68.4 76.5	0.3 0.3	12.9 13.3	1.1 1.1	115.6 117.0	0.0 0.0	198.6 208.5	0.0 0.0	219.2 226.9	0.0 0.0	219.2 226.9
2007 2008	0.0	14.1 14.1	0.2 0.6	75.4	0.2	11.0	1.1	115.2	0.0	203.2 187.0	0.0 0.0	217.7	0.0	217.7
2008 2009	0.0 0.0	14.1 12.2	0.6 0.4	64.2 61.5	0.4 0.2	10.2	1.1 1.0	110.6	0.0 0.0	187.0 185.7	0.0 0.0	201.5 197.9	0.0 0.0	201.5 197.9
2010	0.0	9.1	0.4	67.8	0.2	7.6 9.3	1.4	115.1 107.9	0.0	186.7	0.0	197.9	0.0	195.8
2011	0.0	9.1 7.5	0.2	71.7	0.1	8.6	1.4	111.9	0.0	193.9	0.0	201.4	0.0	201.4
2012 2013	0.0 0.0	7.9 9.2	0.2 0.2	71.4 72.6	(s) 0.1	8.5 8.3	1.3 1.3	112.5 111.2	0.0 0.0	193.9 193.7	0.0 0.0	201.8 202.9	0.0 0.0	201.8 202.9
2013	0.0	9.2	0.2	72.6 77.1	0.1	8.1	1.3	111.2	0.0	200.2	0.0	202.9	0.0	202.9
2015	0.0	9.1	0.2	80.0	0.1	8.4	1.5	112.8	0.0	203.0	0.0	212.1	0.0	212.1
2016 2017	0.0 0.0	8.9 9.3	0.2 0.2	78.1 84.2	0.1	8.0 8.6	1.4 1.4	111.0 118.0	0.0 0.0	198.9 212.4	0.0 0.0	207.8 221.7	0.0 0.0	207.8 221.7
2018	0.0	10.5	0.2	92.2	(s) 0.1	7.9	1.4	116.7	0.0	218.5	0.0	229.0	0.0	229 በ
2019	0.0	12.8	0.2	93.9	(s)	8.1 5.6	1.3	116.6	0.0	220.2	0.0	233.0	0.0	233.0
2020	0.0 0.0	13.6 11.5	0.2	93.7 R 100.3	0.1 (s)	5.6 6.3	1.2 R 1.4 1.4	103.9	0.0	204.6 R 226.7	0.0	218.3 R 238 2	0.0	218.3 R 238 2
2021 2022	0.0	11.5 12.3	0.2 0.2	96.1	(s) (s)	6.3 8.6	1.4	117.4 110.4	0.0 0.0	R 226.7 217.7	0.0 0.0	R 238.2 230.0	0.0 0.0	R 238.2 230.0
					•									

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, New Mexico

960 965 970 975 980	Coal Thousand short tons	Natural gas <sup>a</sup> Billion	Distillate fuel oil <sup>b</sup>	Petroleum	Residual		Nuclear	l l		1			Electricity	
960	short tons			coke	fuel oil <sup>c</sup>	Total	electric power	Hydroelectric power <sup>d</sup>	W	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	net imports <sup>h</sup>	
960 965 970 975		cubic feet		Thousan	d barrels		Million kil	lowatthours	Wood and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
965 970 975	26	34	10	0	107	117	0	69		0	NA	NA	0	
970 975	2.418	34 44 55 65 56 28 25 32 47	4	ő	42	46	Ö	43		0	NA	NA	Ő	
975	2,418 5,518	55	8	Ö	42 86	46 94	Ö	66		Ō	NA	NA	Ō	
	7,425	65	34	0	1,704 175	1,738 391	0	63 94		0	NA	NA	0	
980	11,406	56	216	0	175	391	0	94		0	NA	NA	0	
985	14,498	28	45 37	0	41	86	0	128		0	0	0	0	
990	15,065 15,137 16,503 17,034	25	37	0	32	69 44 67	0	205		0	0	0	0	-
995	15,137	32	44	0	1	44	0	264		0	0	0	0	-
000	16,503	4/	67	0	0	6/	0	221 165		0	0	705	(s) -15	-
000	17,034	41	64	0	0	64	0	198		0	0	795	-15	-
990 995 000 005 006	16,961 15,959 15,398	56 61 69	13	0	0	73 82 102	0	268		0	0	1,200	-34 -25 -79	
007	15,939	60	102	0	0	102	0	312		0	0	1,393	-23 -70	_
000	16,550	70	85	0	0	85	0	971		0	0	1,043	-13	_
009 010	16,513 14,536	70 71 73 74 75 77 78 81 75 98 103	73 82 102 85 92 72 88 110	0	0	85 92 72 88 110	0	271 217		0	9	1,255 1,393 1,643 1,547 1,832	-88 -23 27 21	_
011	15 496	73	72	0	0	72	0	195		0	128	2,101 2,222 2,190 2,272	27	_
012	15,496 14,452 14,270	74	88	ŏ	ŏ	88	ŏ	223		ŏ	334	2 222	21	_
012 013 014	14.270	75	110	0	Ŏ	110	Ö	223 92		(s)	334 388 515	2,190	19	_
014	11 913	77	123	Ŏ	Ŏ	123	Ö	98		`9	515	2,272	21	_
015 016 017	11.882	78	126	0	0	126	0	99		10	615	2.087	11	_
016	11,882 10,547 10,494	81	126 101	0	0	101	0	148		14	615 752	2,087 3,603 4,592	10	-
)17	10,494	75	81	0	0	81	0	193		13	1,193	4,592	7	_
018 019	7,262 8,148	98	42	0	0	42	0	150 158		13	1,349	6,089 6,889	3	_
019	8,148	103	703 67	0	0	703	0	158		58	1,366	6,889	0	_
020	7,443	100	67	0	0	67	0	203		53	1,749	7,223	0	_
021 022	7,075 7,370	82 90	67 38	0	0	67 38	0	123 121		51 47	1,750 1,981	10,579 14,433	0	-
1022	7,370	90	38	0	0		0	121		47	1,981	14,433	0	_
							Trillion Btu							
960 965 970 975	0.6 43.5 99.1 132.5 201.8 266.4	34.9 48.7 59.5 67.4 57.9 28.5	0.1	0.0	0.7 0.3	0.7	0.0	H 0.2	0.0	0.0	NA	NA	0.0	R 36. R 922. R 159. R 211. R 262. R 302. R 307. R 351. R 361. R 368. R 368. R 368. R 344.
965	43.5	48.7	(s)	0.0	0.3	0.3	0.0	<sup>n</sup> 0.1	0.0	0.0	NA	NA	0.0	n 92.
970	99.1	59.5	(s) 0.2	0.0	0.5	0.6	0.0	n 0.2	0.0	0.0	NA	NA	0.0	n 159
975	132.5	67.4	0.2	0.0	10.7	10.9 2.4 0.5	0.0	" U.2	0.0	0.0	NA	NA	0.0	R 000
980	201.8	57.9	1.3 0.3	0.0 0.0	1.1 0.3	2.4	0.0 0.0	H 0.3	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0	0.0 0.0	R 202
900	200.4	26.3	0.3	0.0	0.3	0.5	0.0	R 0.4	0.0	0.0	0.0	0.0	0.0	R 200
990	274.7	20.5 32.6	0.2	0.0	(s)	0.4	0.0	R 0.7	0.1	0.0	0.0	0.0	0.0	R 307
980 985 990 995 000	274.7 273.4 303.5	26.3 32.6 46.5 41.4 55.9 62.1 69.9	0.2 0.3 0.4	0.0	0.0	0.3 0.4	0.0	R 0.2 R 0.1 R 0.2 R 0.3 R 0.4 R 0.7 R 0.9 R 0.8 R 0.6	0.1	0.0	0.0 0.0	_ 0.0	0.0 (s) -0.1 -0.1	R 351
005	315.9 314.2 294.1 282.8	41.4	0.4	0.0	0.0	0.4	0.0	R 0.6	(8)	0.0	0.0	R 2.7	-0.1	R 361
005 006 007	314.2	55.9	0.4 0.4	0.0	0.0 0.0	0.4 0.5	0.0	R 0.7	(s) 0.2 0.3	0.0	0.0	R 2.7 R 4.3 R 4.8 R 5.6 R 5.3 R 6.3 R 7.2 R 7.6 R 7.5	-0.1	R 375
007	294.1	62.1	0.5	0.0	0.0	0.5	0.0	R 0.9 R 1.1	0.3	0.0	0.0	R 4.8	-0.1	R 362
800	282.8	69.9	0.6	0.0	0.0	0.6	0.0	B 1.1	0.5	0.0	0.0	R 5.6	-0.3	R 360
008 009 010	304.7 266.4	72.0 72.2	0.5 0.5	0.0 0.0	0.0 0.0	0.5 0.5	0.0 0.0	R 0.9 R 0.7 R 0.7 R 0.8 R 0.3 R 0.3 R 0.3 R 0.5 R 0.7	0.5 0.3	0.0 0.0	0.0	R 5.3	-0.3 -0.1	R 383
010	266.4	72.2	0.5	0.0	0.0	0.5	0.0	R 0.7	0.3	0.0	R (s) R 0.4	R 6.3	-0.1	R 346
011	284.2	75.0 76.4 77.0	0.4	0.0	0.0	0.4 0.5 0.6	0.0	H 0.7	0.2	0.0	H 0.4	H 7.2	0.1	H 368
12	262.4 255.1	76.4	0.5	0.0	0.0	0.5	0.0	H 0.8	0.3	0.0	R 1.1 R 1.3	H 7.6	0.1	H 349
013	255.1	77.0	0.6	0.0	0.0	0.6	0.0	H 0.3	0.4	(s) R (s) R (s) R (s) R (s) R (s)	H 1.3	H 7.5	0.1	H 342
014 015	213.9 214.0 195.3	79.5 81.2	0.7 0.7 0.6	0.0	0.0	0.7	0.0	n 0.3	0.3 0.5	n (s)	R 1.8	n 7.8	0.1	n 304
015	214.0	81.2	0.7	0.0	0.0	0.7	0.0	" 0.3 B o s	0.5	n (s)	''2.1 Boo	'' /.1 B40.0	(s) (s)	" 306
016	195.3	85.4	0.6	0.0	0.0	0.6	0.0	n 0.5	0.3	n (s)	n 2.6	" 12.3 B 45.7	(s)	R 297
017 018	197.3 135.0	78.8 102.2	0.5 0.2	0.0 0.0	0.0 0.0	0.5 0.2	0.0 0.0	" U. /	0.3 0.4	'' (S)	'' 4.1 B 4.0	'' 15./ Boo.c	(s)	11 29 A
2018	150.0	102.2	4.0	0.0	0.0	4.0	0.0	U.5 B o s	0.4	(s)	R 2.1 R 2.6 R 4.1 R 4.6 R 4.7 R 6.0	20.6 B 22 F	(s) (s) 0.0	263 B oor
019	100.0	100.0	4.0	0.0	0.0	4.0 0.4	0.0	U.5 R n 7	0.3	R 0.2	R60	R 24.6	0.0	R 271
020	137.4 131.9	102.3 81 1	0.4	0.0	0.0	0.4	0.0	R 0.7	0.3 0.3	R 0.2	Ren	R 26.1	0.0 0.0	R 304 R 306 R 297 R 297 R 263 R 289 R 271 R 259
020 021 022	150.0 137.4 131.8 136.6	102.3 84.4 92.5	0.4 0.4 0.2	0.0 0.0	0.0 0.0	0.4	0.0 0.0	R 0.5 R 0.7 R 0.4 0.4	0.2	R 0.2 0.2	R 6.0 6.8	R 7.8 R 7.1 R 12.3 R 15.7 R 20.8 R 23.5 R 24.6 R 36.1 49.2	0.0 0.0	286

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, New York

						Petroleum								
	01	Natural	Distillate	1101.6	Jet fuel <sup>d</sup>	Motor	Residual	Others	<b>T</b>	Nuclear	Hydro- electric	MC	Fuel	Programa.
-	Coal	gas <sup>a</sup>	fuel oil b	HGL <sup>c</sup>	fuel <sup>u</sup>	gasoline <sup>e</sup>	fuel oil	Other <sup>f</sup>	Total	electric power	power <sup>g</sup>	Wind	ethanol h	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	rs	Thousan	d barrels
1960	26,418	419	82,380	2,849	9,411	95,706	77,563	29,628	297,538	0	12,087	0	NA	NA
1965 1970	28,736 23,936	545 711	104,033 111,107	3,174 4,506	23,620 38,338	109,226 130,737	104,296 152,252	21,674 20,395	366,023 457,335 474,401 492,380	727 4,273	19,576 25,051	0	NA NA	NA NA
1971	17.593	717	113,875	4,757	39.280	136.999	158,357	21,132	474,401	6,521	25,430	0	NA	NA
1972	14.283	693	113,875 119,408	4,757 5,303	43,509	140 964	158,357 161,435	21,132 21,761	492,380	6,465	25,430 27,794	0	NA	NA
1973 1974 1975	14,613 15,146	683 627	121,012 109,483	5,179 4,753	43,403 38,230	145,099 134,343 133,461 143,459 141,083	169,105 152,776	21,696 20,586	505,494 460,171 446,175	7,227 9,272	29,364 28,813	0	NA NA	NA NA
1975	12.678	627 577	109,483 105,118	4,753 5,188	38,230 38,634	133,461	152,776 144,721	20,586 19,053	446,175	13.111	28,813 28,323	ŏ	NA	NA
1976 1977	14,456 13,519	596 562	115,090	5,580 5,865	38,574 39,197	143,459	152,639 156,520 150,720 127,846	20,575 20,193	475,917 478,327	15,659 20,590	28,845 25,678	0	NA NA	NA NA
1977	12,034	570	115,468 113,553	5,005	38.907	141,063	150,520	20,193	476,327 474.849	20,590	25,676 26.074	0	NA NA	NA
1978 1979	12,034 12,585	624	113,553 90,071	5,928 5,663	35,746	144,925 137,083 127,422 129,730 129,867	127,846	20,815 18,282	474,849 414,691	21,701 18,507	26,074 26,483	Ö	NA	NA
1980	12 503	737	72,559 64,120	5 631	35,936	127,422	115 488	15,469 14,633	372,505 334,826 311,288	19,276 17,444	26,474 25,891	0	NA 0	NA NA
1981 1982	12,388 11,514	760 775	62.116	5,215 4,878	25,383 4,827	129,730	95,745 95,706	13.894	311.288	14.438	25.563	0	0	NA NA
1983 1984	10,676 11,895	720 790	56,756 65,732	4,905 5,056	3.790	127,144 113,249	76,067 73,011	14,783 16,696	283,445 277,631 296,994 316,039	16,376 21,187	26,395 26,819	Ö	Ö	NA
1984	11,895 11,944	790	65,732	5,056	3,887	113,249	73,011 66,334	16,696	277,631	21,187	26,819	0	0	NA NA
1985 1986	9,931	763 729	67,766 76,544	4,923 4,878	3,856 3,738	136,330	79,619	17,784 14,462	316 039	24,092 22,084	27,189 29,713 27,779	0	0	NA NA
1987	11.471	779	81 230	5 474	2 904	142,918	77 490	17 270	327 287	22.926	27,779	Ö	Ö	NA
1988 1989	12,956	790	83,567 82,091	5,238 5,579	4,915 6,047	130,449	88,972 85,316	19,938 16,132	333,081 328,648	24,175	24,134	0	0	NA NA
1989	14,131 13,597	846 869	73 802	5,579 5,606	6,047 5.447	133,483	77 242	16,132	328,648 315,450	22,847 23,623	24,818 28 188	0	0	NA NA
1990 1991	13.641	869 892	73,802 68,063	5,606 7,206	5,447 5,300	113,249 136,330 136,798 142,918 130,449 133,483 139,180 133,311 129,064 131,710	67,751	14,173 14,270	315,450 295,902	28.448	24,134 24,818 28,188 27,172	ő	Ō	NA
1992 1993	13,760 12,651	1,005 994 1,066 1,260 1,220 1,324 1,233 1,274 1,245 1,172 1,200 1,102 1,098	72,742 72,898	7,076 6,139	5,357 5,131	129,064	51,308 47,822	14,882 15,257	280,429 278,957 268,176	24,155 26,889	28,057 29,443 27,791 25,993	0	0	NA
1994	12,051	1 066	72,898 73,218	6,139	5,131		47,822 40,125	14,525	278,957 268 176	29,231	29,443 27 791	0	83 205	NA NA
1995 1996	11,785	1,260	70 349	6,351 6,332 7,073	7,697	132,627 130,979	30,126	14 018	261,149 272,474	26.336	25,993	Ö	654	NA NA
1996	12,074	1,200	71,914 71,033 64,516	7,073	11,532	130,979	36.628	14,348 14,114 17,011	272,474	35.226		0	552	NA
1997 1998	12,522 12,952	1,324	71,033 64,516	6,686 7,306	12,138 14,800	130,923	29,992 35,732	14,114	264,886 270,834 275,024 289,574	29,570 31,314	29,316	0	532 394	NA NA
1999 2000	12,187 12,612	1,274	71,969 79,039	7,316 9,850	9,122 9,516	133,621	35,353 42,349	17,643 15,988	275,024	37,019 31,508	24,752	Ŏ	341	NA
2000	12,612	1,245	79,039	9,850	9,516	132,831	42,349	15,988	289,574	31,508	24,910	10	377	NA
2001 2002	11,783 10,908	1,1/2 1,200	82,878 76,684	7,111 7,613	14,655 15,428	133,724 136,664	37,090 31,110	17,194 14,979	292,651 282 478	40,395 39,617	23,084 25,048	21 82	107 95	14 22
2003	11.314	1,102	76,684 91,548	7,771	17.268	138,010	46 578	17,194 14,979 14,955	292,651 282,478 316,129	40,395 39,617 40,679	24,269	82 41	549	18
2004 2005	11,335 10,739	1,098	95,300	7,111 7,613 7,771 8,639 8,261	19,300	130,9/3 130,9/3 131,469 133,621 132,831 133,724 136,664 138,010 137,391 137,355	51,469 52,150	18,701 20,911	330,800 325,323	40,640 42,443	25,951 30,618 29,316 24,752 24,910 23,084 25,048 24,269 23,990 25,783	116	7,024 2,322	37
2005	10,739	1,080 1,097	86,630 75,871	8,261 7 152	20,016 20,341	137,355	52,150 25,526	20,911 17,960	325,323 286 871	42,443 42,224	25,783 27,345	103 655	2,322 6.057	22 18 37 124 356 482 414
2006 2007	10,979 11,058	1,097 1,187	75,871 78,850 73,289 64,154	7,152 7,345 8,536 8,344	20,341 19,977	140,020 139,140 136,105 135,921 138,087	25,526 28,975	17,960 15,583	286,871 289,871 278,410	42,224 42,453 43,209	25,253	655 833	6,057 7,615	482
2008 2009	10,157 7,032	1,180	73,289	8,536	21.658	136,105	24.204	14,618 14,423	278,410	43,209	26,723	1.251	9,966	414
2009	7,032 7,367	1,143	64,154 60,987	8,344 8,138	16,760 40,612	135,921 138,087	24,060 22,234	14,423 12,881	263,662	43,485 41,870	27,615 25,472	2,266 2,596	12,023 13.488	439 355 1,209 1,221
2011	5,604	1,217	60,439 61,030	7,689 6,869	40,836 41,117	130,718	22,234 14,517 10,262	12,881 11,497 10,412	265,695	42,695 40,775	27,997	2,828	12,758	1,209
2012	3,137	1,180 1,143 1,198 1,217 1,223	61,030	6,869	41,117	130,718 127,902 127,461 131,943 129,909	10,262	10,412	282,940 265,695 257,592 256,380 266,616	40,775	27,345 25,253 26,723 27,615 25,472 27,997 24,652 24,973 26,087 26,015	2.992	9,966 12,023 13,488 12,758 12,640 12,759 13,129 12,874	1,221
2013 2014	3,041 2,867	1,273	56,594 59,002	7,657 g 230	43,669 44,771	127,461	11,032	9,967 10,275	256,380 266,616	44,756 43,039	24,973 26.087	3,539 3,968	12,/59 13 120	1,132
2015	1 761	1,273 1,349 1,353	56,594 59,002 62,971	7,657 9,230 8,609	47,059	129,909	11,032 11,396 7,582	10,412 9,967 10,275 10,603 R 11,425 R 10,275 R 10,054 R 9,999 B 0,546	266,732	44.603	26,015	3,977	12,874	1,132 1,180 1,259
2016	1,175 738 635 536 222	1,296 1,237 1,350	57,242 56,280	8,516 8,459	49,823	134,799 136,414 137,758 135,872	6,358 5,202	R 11,425	266,732 R 268,163 R 268,298	41,571 42,167	26,888	3.940	13,433	1,438 1,495 1,709 1,845
2017 2018	/38 635	1,237 1,350	56,280 63,298	8,459 9,953	51,669 50,139	136,414 137,758	5,202 5,474	n 10,275 R 10,054	R 268,298	42,167 42,919	30,145 29,630	4,136 3,998	13,790 14,005	1,495
2019	536	1.296	61,140	9,953 10,276	50,139 50,730	135,872	2.269	R 9,999	R 276,675 R 270,287 R 209,925 R 242,175	44,865	30,621	3,998 4,456	13,937	1,845
2020	222	1,264	51 718	9 931	23 669	1126/6	2,416	R 9,515	R 209,925	38.430	29,550	4.522	11,610	1.506
2021 2022	211 241	1,264 R 1,317 1,360	R 61,326 66,505	10,401 10,188	30,745 42,323	124,180 121,972	2,416 R 4,371 5,247	R 9,515 R 11,150 10,038	<sup>n</sup> 242,175 256,273	31,177 26,812	26,688 30,145 29,630 30,621 29,550 28,765 27,432	4,156 4,568	13,433 13,790 14,005 13,937 11,610 12,897 12,703	R 1,824 1,950
	271	1,000	30,303	10,100	72,020	121,012	5,277	10,000	200,210	20,012	21,702	4,500	12,700	1,550

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New York (trillion Btu)

					Fossi	l fuels					_	Fossil fuels as commingled)	
						Petroleum					1	as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	691.7	434.1	479.9	10.9	52.6	502.7	487.6	166.2	1,700.0	2,825.9	434.1	479.9	502.7
1965 1970	755.2 598.9	558.7	606.0	12.2	133.2	573.8	655.7 957.2	128.6	2,109.5	3,423.3	558.7 725.8	606.0	573.8
1970	598.9	725.8	647.2	17.1	216.7	686.8	957.2	122.0	2,109.5 2,647.0	3,971.8	725.8	647.2	686.8
1971	435.7	731.6	663.3	18.0	222.1	719.7	995.6	126.4	2,745.1	3,912.3 3,909.9	731.6	663.3	719.7
1972 1973	355.4 369.3	707.3 703.0	695.5 704.9	20.1 19.5	246.1 245.5	740.5 762.2	1,014.9 1,063.2	130.1 131.4	2,847.2 2,926.8	3,909.9	707.3 703.0	695.5 704.9	740.5 762.2
1974	374.2	641.9	637.7	17.9	216.2	705.7	960.5	124.4	2,662.4	3,678.6	641.9	637.7	705.7
1975	312.5	585.5	612.3	19.5	218.5	701.1	909.9	114.7	2.575.9	3.473.9	585.5	612.3	701.1
1976	363.8	604.3	670.4	20.9	218.2	753.6	959.6	123.3	2,746.1	3,714.2	604.3	670.4	753.6
1977	336.9	567.9	672.6	21.9	221.7	741.1	984.0	121.4	2,762.7	3,667.4	567.9	672.6	741.1
1978 1979	297.3 315.2	576.5 633.6	661.4 524.7	21.9 21.0	220.1 202.2	761.3 720.1	947.6 803.8	125.3 110.4	2,737.6 2,382.1	3,611.4 3,330.8	576.5 633.6	661.4 524.7	761.3 720.1
1979	313.7	752.6	422.7	20.8	203.3	669.3	726.1	93.5	2,362.1	3,202.0	755.9	324.7 422.7	669.3
1981	308.7	770.9	373.5	19.3	143.5	681.5	602.0	89.9	1,909.6	2,989.1	775.7	373.5	681.5
1982	289.0	790.7	361.8	18.0	27.0	682.2	601.7	85.2	1.776.0	2.855.6	793.1	361.8	682.2
1983	268.0	738.2	330.6	18.3	21.1	667.9	478.2	90.3	1,606.4	2,612.6	739.8	330.6	667.9
1984 1985	299.9 301.4	809.5 782.9	382.9 394.7	18.8 18.5	21.5 21.4	594.9 716.1	459.0 417.0	100.6 108.6	1,577.7 1,676.4	2,687.1 2,760.6	811.3 784.7	382.9 394.7	594.9 716.1
1986	253.3	762.9 749.2	445.9	18.4	20.8	718.6	500.6	89.0	1,793.2	2,795.8	749.9	394.7 445.9	718.6
1987	294.3	801.5	473.2	20.7	16.0	750.7	487.2	105.7	1.853.6	2,949.4	801.9	473.2	750.7
1988	333.0	812.4	486.8	19.9	27.4	685.3	559.4	122.4	1,901.0	3,046.4	813.1	486.8	685.3
1989	363.8	869.7	478.2	21.2	33.8	701.2	536.4	97.8	1,868.6	3,102.0	870.9	478.2	701.2
1990	349.8	895.0	429.9	21.3	30.4	731.1	485.6	87.3	1,785.6	3,030.3	895.4	429.9	731.1
1991 1992	352.3 356.0	916.5 1,032.7	396.5 423.7	27.2	29.6 29.9	700.3 678.0	426.0	88.4 92.7	1,667.9	2,936.7 2,962.3	917.2 1,034.0	396.5 423.7	700.3 678.0
1993	326.2	1,021.5	424.6	26.8 23.2	28.7	678.0 686.8	322.6 300.7	95.5	1,573.6 1,559.5	2,907.2	1,023.2	424.6	687.1
1994	316.7	1,094.1	426.1	24.1	32.3	667.9	252.3	90.7	1,493.4	2,904.2	1,095.6	426.1	668.6
1995	305.3	1,293.9	409.4	24.0	43.6	687.9	189.4	87.5	1,441.9	3,041.0	1,295.4	409.4	690.2
1996	311.8	1,229.5	418.5	26.7	65.4	680.6	230.3	88.7	1,510.2	3,051.5	1,230.8	418.5	682.5
1997 1998	325.2 337.4	1,357.2 1,266.3	413.4 375.4	25.1 27.4	68.8 83.9	679.6 682.7	188.6 224.6	87.4 104.6	1,462.9 1,498.6	3,145.3 3,102.4	1,358.1 1,267.1	413.4 375.4	681.5 684.0
1999	318.0	1,308.2	418.8	27.4 27.4	51.7	693.9	222.3	104.0	1,522.5	3,148.7	1,308.7	418.8	695.1
2000	330.8	1,278.8	459.9	36.9	54.0	689.5	266.2	98.2	1 604 7	3.214.4	1,279.7	459.9	690.9
2001	307.0	1,204.9	482.3	26.7	83.1	695.1	233.2	105.4	1,625.7 1,560.2	3,137.6	1,205.9	482.3	695.5
2002	280.6	1,227.2	446.2	28.8	87.5	710.2	195.6	92.0	1,560.2	3,068.0	1,227.2	446.2	710.5
2003	286.2	1,131.3	532.7	29.3	97.9	715.3	292.8	91.9	1,760.0	3,177.5	1,131.4	532.7	717.2
2004 2005	276.5 256.9	1,126.6 1,107.2	554.5 504.0	32.5 30.7	109.4 113.5	689.5 705.1	323.6 327.9	114.2 126.0	1,823.7 1,807.2	3,226.8 3,171.3	1,126.6 1,107.2	554.5 504.0	713.9 713.1
2006	256.3	1,120.2	440.3	26.7	115.3	705.0	160.5	108.9	1,556.8	2,933.3	1,120.2	440.3	726.0
2007	258.4	1,214.3	456.1	27.7	113.3	689.1	182.2	94.6	1.562.8	3,035.6	1,214.4	456.1	715.5
2008	229.0	1,205.1	423.6	32.4	122.8	660.4	152.2	89.0	1,480.4	2,914.5	1,205.1	423.6	695.0
2009 2010	156.0 167.1	1,166.6	368.9 351.0	31.7 31.3	95.0 230.3	650.2 652.9	151.3 139.8	88.7 79.9	1,385.8 1,485.2 1,387.4	2,708.4 2,876.8	1,166.6 1,224.5	370.6 352.2	691.8 699.7
2010	167.1 125.2	1,224.5 1,247.8	351.0 345.8	31.3 29.5	230.3 231.5	652.9 617.6	139.8 91.3	79.9 71.6	1,485.2 1,387.4	2,876.8 2,760.3	1,224.5 1,247.8	352.2 348.7	699.7 661.8
2012	72.9	1,260.9	348.9	26.4	233.1	603.6	64.5	64.9	1.341.4	2,675.3	1,260.9	352.0	647.4
2013	68.7	1,315.3	320.9	29.4	247.6	600.7	69.4	62.5	1,341.4 1,330.5	2,714.5	1,315.3	326.1	645.0
2014	64.7	1,392.4	334.7	35.5	253.9	621.9	71.6	64.5	1.382.1	2,839.1	1,392.4	340.0	667.5
2015	41.2	1,396.7	357.0	33.1	266.8	612.2	47.7	66.4	1,383.3	2,821.2	1,396.7	362.8	656.9
2016 2017	29.7 19.6	1,336.5 1,276.9	321.1 316.0	32.7 32.5	282.5 293.0	634.8 641.4	40.0 32.7	71.2 R 64.4	1,382.2 R 1,379.9 R 1,424.1	2,748.3 R 2,676.3	1,336.5 1,276.9	329.5 324.0	681.4 689.3
2017	16.7	1,393.7	357.0	38.2	284.3	647.4	34.4	H 62 8	R 1.424.1	H 2 92/15	1,393.7	364.5	696.2
2019	13.6	1,337.7	345.5	39.5	287.6	637.9	14.3	H 62 5	H 1 387 2	R 2 738 6	1,337.7	352.1	686.4
2020	5.7	1 305 3	290.9	38.1	134.2	528.9	15.2	H 59 7	<sup>n</sup> 1.067.1	<sup>n</sup> 2,3/8.1	1.305.3	297.7	569.2
2021	5.4	R 1,359.4	R 350.2	40.0	174.3	582.2	27.5	R 69.5	R 1,238.0	<sup>n</sup> 2,602.8	R 1,359.4	R 353.5	627.1
2022	6.1	1,402.2	379.7	39.1	240.0	571.6	33.0	62.6	1,319.9	2,728.3	1,403.4	383.4	615.8

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, New York (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	mass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 41.2	59.3	NA	NA	NA	NA	59.3	0.0	NA	NA	R 100.5	R -24.7 R 9.8 R 20.5 R 0.6	12.4	R 2,914.1
1965 1970	8.6 46.9	R 66.8 R 85.5 R 86.8	58.1 62.6	NA NA	NA NA	NA NA	NA NA	58.1 62.6	0.0 0.0	NA NA	NA NA	R 124.9 R 148.1	R 20.5	1.7 3.2	R 3,568.4 R 4,190.4 R 4,133.4 R 4,155.5
1971	70.7	R 86.8	60.2	NA	NA	NA	NA	60.2	0.0	NA	NA	R 146.9 R 154.3	R 0.6	2.9	R 4,133.4
1972	69.8 78.8	R 94.8	59.5 59.6	NA NA	NA NA	NA NA	NA NA	59.5 59.6	0.0	NA NA	NA NA	n 154.3 R 159.8	R 16.1	5.4 7.8	R 4,155.5
1973 1974	103.5	R 100.2 R 98.3	59.6 62.1	NA	NA NA	NA	NA	62.1	0.0 0.0	NA	NA NA	R 159.8 R 160.4	R 52.8	7.8 10.6	R 4,305.7 R 4,005.8
1975 1976	144.4 173.0	R 96.6 R 98.4	60.2	NA NA	NA NA	NA NA	NA NA	60.2 69.3	0.0 0.0	NA NA	NA NA	R 156.8 R 167.7	R 60.2 R 52.8 R 26.5 R 53.8 R 50.1 R 53.8	5.6 8.3	R 3,807.2 R 4,116.9 R 4,111.6
1977	221.7	H 87 6	69.3 74.2	NA	NA	NA	NA	74.2	0.0	NA	NA	H 161 8	R 50.1	10.5	R 4,111.6
1978	237.4	R 89.0 R 90.4	84.7	NA	NA	NA	NA	84.7	0.0	NA	NA	R 173.7 R 184.5	R 53.8	16.6	R 4,093.0 R 3,871.1
1979 1980	201.3	R 90.3	94.2 129.7	NA NA	NA NA	NA NA	NA NA	94.2 129.7	0.0 0.0	NA NA	NA NA	H 220 0	R 106 1	40.7 24.5	113,871.1 R 3 762 8
1981	210.3 192.4	H 88.3	129.7 143.3	0.0	NA NA	NA	0.0	129.7 143.3	0.0	NA	NA	R 231.6	R 106.1 R 116.5 R 130.8 R 120.9 R 79.6 R 107.8	24.5 48.1	R 3,762.8 R 3,577.8
1982 1983	159.9 178.6	R 87.2 R 90.1	130.2 158.2	0.0 0.0	NA NA	NA NA	0.0 0.0	130.2 158.2	0.0 0.0	NA NA	NA 0.0	R 217.4 R 248.3	n 130.8 R 120.9	51.6 69.2	R 3,415.4 R 3,229.5
1984	229.7	n 91.5	129.6	0.0	NA	NA	0.0	129.6	0.0	0.0	0.0	R 221.1	R 79.6	71.4	R 3,288.9 R 3,407.6
1985	255.9	R 92.8	131.5	0.0	NA NA	NA NA	0.0 0.0	131.5 118.8	0.0	0.0 0.0	0.0	R 224.3	H 107.8	59.0	H 3,407.6
1986 1987	233.6 239.4	R 101.4 R 94.8	118.8 110.6	0.0 0.0	NA NA	NA	0.0	110.6	0.0 0.0	0.0	0.0 0.0	R 220.1 R 205.4	R 121.5	52.8 52.8	R 3,450.1 R 3,568.4
1988	256.3	H go g	116.5	0.0	NA	NA	0.0	116.5	0.0	0.0	0.0 0.0	H 198.8	R 125.5	41.6	R 3,668.6 R 3,672.8
1989 1990	241.8 250.0	R 84.7 R 96.2	119.8 97.4	0.0 0.0	NA NA	NA NA	0.0 0.0	119.8 97.4	0.1 0.1	0.3 0.3	0.0 0.0	R 204.8 R 193.9	1108.7 R 91.4	15.5 2.4	R 3,672.8
1991	298.3	R 96.2 R 92.7	97.4 95.1	0.0	NA	NA	0.0	95.1	0.1	0.3	0.0	R 193.9 R 188.2	R 147.8 R 121.5 R 125.5 R 108.7 R 91.4 R 75.3	10.4	R 3,568.1 R 3,508.9
1992 1993	252.9 282.4	R 95.7	104.5	0.0	NA NA	NA NA	0.0 0.0	104.5 117.6	0.1	0.3	0.0	R 200.7 B 218 5	R 162.3 R 177.9 R 86.5 R 47.6	10.4 18.9	R 3,508.9 R 3,588.6 R 3,605.0 R 3,557.9 R 3,609.9 R 3,735.5 R 3,800.0
1994	305.5	R 100.5 R 94.8	117.3 122.0	0.3 0.7	NA	NA	0.0	122.7	0.1 0.2	0.3 _ 0.4	0.0 0.0	R 218.5 R 218.1	R 86.5	43.6	R 3,557.9
1995 1996	276.7 370.0	R 88.7 R 98.8	122 6	2.3 1.9	NA NA	NA NA	0.0 0.0	124.9 141.1	0.2 0.2	R 0.4 0.5	0.0 0.0	R 214.2 R 240.6	H 47.6	30.4 24.1	H 3,609.9
1997	310.3	R 104.5	139.2 177.7	1.8	NA NA	NA NA	0.0	179.5	0.2	0.5	0.0	H 284.8	R 49.4 R 54.3	5.3	R 3.800.0
1998	328.5	H 100.0	159.0	1.4	NA	NA	0.0	160 4	0.3	Ros	0.0	R 261.3	H 12 5	2.8	R 3,738.5 R 3,887.0 R 3,966.1
1999 2000	386.8 328.6	R 84.5 R 85.0	165.2 174.1	1.2 1.3	NA NA	NA NA	0.0 0.0	166.3 175.4	0.3 0.3	R 0.5 R 0.5 R 0.5 R 0.5 R 0.5	0.0 R (s) R 0.1	R 251.6 R 261.3	R 96.5 R 132.2 R 82.6 R 140.8	3.3 29.6	R 3,887.0
2001	421.8	R 78 8	111.1	0.4	0.1	NA	0.0	111.6	0.3 0.4	R 0.5	R 0.1	H 191 3	R 82.6	26.5 37.4	R 3,859.8 R 3,854.4
2002	413.7	R 85.5 R 82.8	107.4	0.3	0.1 0.1	NA NA	0.0	107.8 112.2	0.4	H 0.5	H 0.3	R 194.5	H 140.8	37.4	H 3,854.4
2003 2004	424.0 423.8	H 81.9	110.2 116.2	1.9 24.4	0.2	NA	0.0 0.0	140.8	0.5 0.5	R 0.5 R 0.6	R 0.3 R 0.1 R 0.4	R 196.1 R 224.2	R 176.4 R 202.0	18.7 17.7	R 3,992.8 R 4,094.5
2005	442.9	R 88.0 R 93.3	105.2	8.1	0.7	NA	0.0	114.0	0.6	0.8 R 0.9	R 0.4 R 0.4 R 2.2 R 2.8 R 4.3 R 7.7 R 8.9	R 203.7 R 219.3	R 134.8 R 61.5 R 44.4	24.8	R 3,977.6 R 3,688.7
2006 2007	440.6 445.3	H 86 2	99.2 103.4	21.0 26.4	1.9 2.6	NA NA	0.0 0.2	122.1 132.7	0.7 0.7	R 1 1	R 2.8	R 223.4	R 44.4	34.1 38.5	R 3,688.7
2008	451.6	H 91 2	109.3	34.6	2.2	NA	4.8	150.9	0.8	R 1.2 R 1.2 R 1.4	R 4.3	H 248.4	R 88.7 R 125.0 R 73.5 R 26.3 R 58.0	38.5 45.4	R 3,787.2 R 3,692.9 R 3,505.2 R 3,690.8
2009 2010	454.8 437.6	R 94.2 R 86.9	69.0 74.9	41.6 46.8	2.4 1.9	NA NA	2.7 5.7	115.7 129.2	1.0 1.1	R 1.2	n 7.7 R 8 9	R 219.8 R 227.4	R 125.0	33.4 24.0	R 3,505.2
2011	446.8	H 95 5	78.3	44.2	6.5	0.0	7.0	136.0	1.3	H15	_R 9.6	H 243.9	R 73.5	35.7	R 3,560.2
2012 2013	427.3 467.7	R 84.1 R 85.2	75.0 82.2	43.8 44.3	6.5 6.1	0.0 0.0	7.0 8.5	132.4 141.0	1.2 1.2	H 1.9	H 10.2	R 229.8 R 241.6	H 26.3	56.4 61.4	H 3,415.0
2014	450.1	R 89.0	85.7	45.6	6.3	0.0	6.5 7.8	145.4	1.2	R 1.9 R 2.2 R 2.7 R 3.7	R 13.5	H 251.9		54.9	R 3.652.1
2015	466.5	H 88 8	R <sub>100.8</sub>	44.7	6.7	0.0	7.8 7.7	R 160 0	1.2 1.2	R 3.7	R 13.6	H 267.2	B 40 0	59.0	R 3,655.8
2016 2017	434.8 441.0	R 91.7 R 102.9	85.7 R 100.8 R 94.7 R 95.6	46.6 47.9	7.7 8.0	0.0 _ 0.0	8.5 8.2	R 157.6 R 159.8	1.2 1.2	R 4.8 R 6.0	R 9.6 R 10.2 R 12.1 R 13.5 R 13.6 R 13.4 R 14.1 R 15.2 R 15.2 R 15.2	R 268.7 R 283.9	R 102 6	61.2 56.1	R 3,5//.2
2018	448.7	R 101 1	R 98.9 R 95.9	48.8	9.2	R 0.1	7.4	16/ /	1.2	H75	R 13.6	H 287 8	R 111.3	53.1 49.1	R 3,735.4
2019 2020	468.5 401.4	R 104.5 R 100.8	H 95.9 R 81.1	48.5 40.4	9.9 8.1	0.0 0.0	7.8 3.9	R 162.2 R 133.4	1.2	H 9 5	H 15.2 R 15.4	R 292.5 R 262.8	H 85.8 R 55.4	49.1 47.7	H 3,634.5 R 3 145 5
2021	R 325.1	H 98.1	R 82.3	44.9	R 9.8	0.0	3.0	H 140.0	1.2 1.2 1.2	R 12.0 R 14.5	R 14.2	R 268.1	R 64.2 R 102.6 R 111.3 R 85.8 R 55.4 R 106.7	46.9	R 3,690.8 R 3,560.2 R 3,415.0 R 3,543.2 R 3,655.8 R 3,577.2 R 3,560.0 R 3,735.4 R 3,634.5 R 3,145.5 R 3,349.6
2022	279.6	93.6	83.4	44.2	10.5	0.0	3.0	141.0	1.2	19.3	15.6	270.7	132.4	41.7	3,452.7

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, New York

Coal Thousand short tons  14,115 12,811 6,057 3,472 2,848 1,670 1,562 1,445 1,273 924	Natural gas a  Billion cubic feet  362 605 613 640 871 776	81,840 107,968 71,830	HGL °		Motor gasoline <sup>e</sup> Thousand barrels	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity			
14,115 12,811 6,057 3,472 2,848 1,670 1,562 1,445 1,273 924	362 605 613 640 871	107,968			Thousand barrels	_								Liectricity		Electrical	
12,811 6,057 3,472 2,848 1,670 1,562 1,445 1,273 924	605 613 640 871	107,968				s 			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
6,057 3,472 2,848 1,670 1,562 1,445 1,273 924	613 640 871		4 500	9,411	95,706	67,712	29,628	287,146	341					46,516			
3,472 2,848 1,670 1,562 1,445 1,273 924	640 871	71,830		38,338	130,737	95,465	20,395	397,408	269					87,800			
2,848 1,670 1,562 1,445 1,273 924	871	70.707	5,631	35,916	127,422	51,590	15,469	307,858	233					105,310			
1,670 1,562 1,445 1,273 924		72,707 76,687	5,606 9,850	5,447 9,516	139,180 132,831	23,442 19,560	14,173 15,721	260,555 264,165	136 91					129,324 142,027			
1,562 1,445 1,273 924		85.056	8,261	20,016	137,355	17,086	18,655	286,428	63					150.148			
1,273 924	709	75,250	7,152	20,341	140,020	15,772	17,100	275,635	93					142,238			
924	779	77,478	7,345	19,977	139,140	17,248	15,087	276,275	62					148,178			
	781	72,480	8,536	21,658	136,105	19,269	14,256	272,304	69					144,053			
982	774 773	63,418 60,350	8,344 8,138	16,760 40,612	135,921 138,087	20,799 20,443	14,124 11,968	259,366 279,600	125 61					140,034 144,624			
1,012	783	60,108	7,689	40,836	130,718	13,491	11,028	263,869	80					144,047			
909	724	60,638	6,869	41,117	127,902	9,802	10,412	256,740	64					143,163			
816	817	56,091	7,657	43,669	127,461	10,150	9,967	254,995	67					147,895			
714	896	58,169	9,230	44,771	131,943	9,168	10,275	263,556	71					147,372			
723	882	62,135	8,609	47,059	129,909	5,640	10,603	263,954	66					148,914			
521 496	824 852	56,898 56,016	8,516 8,459	49,823 51,669	134,799 136,414	5,734 4,560	R 11,425 R 10,275	R 267,194 R 267,393	61 76					147,803 144,992			
364	935	62,508	9,953	50,139	137,758	3,858	R 10,054	R 274,270	65					149,930			
349	918	60.759	10,276	50,730	135,872	1,908	R 9,999	R 269,545	66					145,600			
158	840	51,538	9,931	23,669	112,676	2,203	R 9,515	R 209,533	63					140,407			
211	870	<sup>R</sup> 61,118	10,401	30,745	124,180	3,526	R 11,150	R 241,121	72					141,424			
241	884	65,447	10,188	42,323	121,972	3,613	10,038	253,581	45					143,211			
								Trillion	Btu								
365.7	374.3	476.7	10.9	52.6	502.7	425.7	166.2	1,635.0	R 1.2	59.3	NA	NA	NA	158.7	R 2,594.0	R 320.0	R 2,914.1
324.6	617.4	628.9	17.1	216.7	686.8	600.2	122.0	2,271.7	R <sub>0.9</sub>	62.6	NA	NA	NA	299.6	R 3,576.8	R 613.6	R 4,190.4
									H 0.8							H 764.4	R 3,762.8
									'' 0.5				0.3		" 2,699.7 B 2 244.0	" 868.3 B 005.4	R 3,568.1 R 3,966.1
									U.3						R 2 005 0	R 071 0	R 3,977.6
									R 0.3				R 0.9		R 2.833.7	R 855.0	R 3,688.7
37.9	797.5	448.1	27.7	113.3	715.5	108.4	91.7	1,504.7	R <sub>0.2</sub>	75.9	0.2	0.7	R 1.1	505.6	R 2,926.4	R 860.9	R 3,787.2
33.3	797.9	418.9	32.4	122.8	695.0	121.1	86.9	1,477.1	R 0.2	79.8	4.8	0.8	R 1.2	491.5	R 2,888.9	R 804.0	R 3,692.9
			31.7			130.8	87.0		H 0.4			1.0	H 1.2			R 766.1	R 3,504.6
													" 1.4 B 4 5		" 2,874.7 B 2,004.4	" 815.3 B 750.0	R 3,690.1 R 3,556.6
									R 0.3				1.5 R <sub>1.7</sub>				R 3,411.5
									R <sub>0.2</sub>				R 2 0			7 10.0 R 734 6	R 3,542.4
18.7	926.3	335.2	35.5	253.9	667.5	57.6	64.5	1,414.1	R 0.2	53.4	7.8	1.2	R 2.5	502.8	R 2,927.2	R 723.9	R 3,651.0
19.3	910.7	358.0	33.1	266.8	656.9	35.5	66.4	1,416.7	R 0.2	R 71.0	7.7	1.2	R 3.3	508.1	R 2,938.3	R 716.6	R 3,654.9
14.0	850.0	327.6	32.7	282.5	681.4	36.0	71.2	1,431.4	R 0.2		8.5	1.2		504.3			R 3,578.0
								H 1,430.3	H 0.3	H 63.5			H 5.4				R 3,560.0
								" 1,465.8 R <sub>4 497.0</sub>	" 0.2 R o o	'' 68.8 R 60.7			'' 6.5 R		" 3,036.8 R 2 076 F		R 3,733.7 R 3,631.2
								R 1 111 A	0.2 R n 2	R 53 Q			7.7 Rg 2				R 3,144.2
	R 897.9			174.3			R 69.5	R 1,285.3	R 0.2	R 55.9			R 10.6	482.5		R 606.7	R 3,348.7
5.4	912.9	377.3	39.1	240.0	615.8	22.7	62.6	1,357.6	0.2	67.9	3.0	1.2	13.3	488.6	2,850.0	602.0	3,452.0
	154.9 89.4 76.1 43.9 40.5 37.9 33.3 24.1 25.5 26.0 24.2 21.6 18.7	154.9 627.0 89.4 658.6 76.1 899.6 43.9 796.6 40.5 724.7 37.9 797.5 33.3 797.9 24.1 791.0 25.5 790.8 26.0 804.2 24.2 747.3 21.6 845.8 18.7 926.3 19.3 910.7 14.0 850.0 13.3 879.5 9.7 965.6 8.9 947.3 4.0 868.5 5.4 897.9	154.9 627.0 418.4 89.4 658.6 423.5 76.1 899.6 446.2 43.9 796.6 494.9 40.5 724.7 436.7 37.9 797.5 448.1 33.3 797.9 418.9 24.1 791.0 366.4 25.5 790.8 348.5 26.0 804.2 346.8 24.2 747.3 349.7 21.6 845.8 323.3 18.7 926.3 335.2 19.3 910.7 356.0 14.0 850.0 327.6 13.3 879.5 322.5 9.7 965.6 360.0 8.9 947.3 349.9 4.0 868.5 296.7 5.4 8997.9 8352.3	154.9 627.0 418.4 20.8 89.4 658.6 423.5 21.3 76.1 899.6 446.2 36.9 43.9 796.6 494.9 30.7 40.5 724.7 436.7 26.7 37.9 797.5 448.1 27.7 33.3 797.9 418.9 32.4 24.1 791.0 366.4 31.7 25.5 790.8 348.5 31.3 26.0 804.2 346.8 29.5 24.2 747.3 349.7 26.4 21.6 845.8 323.3 29.4 18.7 926.3 335.2 35.5 19.3 910.7 358.0 33.1 14.0 850.0 327.6 32.7 13.3 879.5 322.5 32.5 9.7 965.6 360.0 38.2 8.9 947.3 349.9 39.5 4.0 868.5 296.7 38.1 5.4 8897.9 \$352.3 40.0	154.9 627.0 418.4 20.8 203.2 89.4 658.6 423.5 21.3 30.4 43.9 796.6 446.2 36.9 54.0 415.4 40.5 724.7 436.7 26.7 115.3 37.9 797.5 448.1 27.7 113.3 33.3 797.9 418.9 32.4 122.8 24.1 791.0 366.4 31.7 95.0 25.5 790.8 348.5 31.3 230.3 26.0 804.2 346.8 29.5 231.5 24.2 747.3 349.7 26.4 233.1 21.6 845.8 323.3 29.4 247.6 845.8 323.3 29.4 247.6 18.7 926.3 335.2 35.5 253.9 19.3 910.7 358.0 33.1 266.8 14.0 850.0 327.6 32.7 282.5 13.3 879.5 322.5 32.5 293.0 9.7 965.6 360.0 38.2 284.3 8.9 947.3 349.9 39.5 287.6 8.9 947.3 349.9 39.5 287.6 8.9 947.3 349.9 39.5 287.6 8.9 947.3 349.9 39.5 287.6 8.9 947.3 349.9 39.5 287.6 8.9 947.3 349.9 39.5 287.6 8.9 947.3 349.9 39.5 287.6 8.9 947.3 349.9 39.5 287.6 8.9 947.3 889.9 97.9 855.2 34.0 174.3	154.9 627.0 418.4 20.8 203.2 669.3 89.4 658.6 423.5 21.3 30.4 731.1 761.1 899.6 446.2 36.9 54.0 690.9 43.9 796.6 494.9 30.7 113.5 713.1 40.5 724.7 436.7 26.7 115.3 726.0 37.9 797.5 448.1 27.7 113.3 715.5 33.3 797.9 418.9 32.4 122.8 695.0 24.1 791.0 366.4 31.7 95.0 691.8 25.5 790.8 348.5 31.3 230.3 699.7 26.0 804.2 346.8 29.5 231.5 661.8 24.2 747.3 349.7 26.4 233.1 647.4 21.6 845.8 323.3 29.4 247.6 645.0 18.7 926.3 335.2 35.5 253.9 667.5 19.3 910.7 358.0 33.1 266.8 656.9 14.0 850.0 327.6 32.5 282.5 681.4 13.3 879.5 322.5 32.5 293.0 689.3 9.7 965.6 360.0 38.2 284.3 696.2 8.9 947.3 349.9 39.5 287.6 686.4 4.0 868.5 296.7 38.1 134.2 569.2 5.4 889.9 947.3 349.9 39.5 287.6 686.4 4.0 868.5 296.7 38.1 134.2 569.2 5.4 889.9 947.3 349.9 39.5 287.6 686.4 4.0 868.5 296.7 38.1 134.2 569.2 5.4 889.9 947.3 889.9 97.8 352.3 40.0 174.3 5627.1	154.9 627.0 418.4 20.8 203.2 669.3 324.3 89.4 658.6 423.5 21.3 30.4 731.1 147.4 76.1 899.6 446.2 36.9 54.0 690.9 123.0 43.9 796.6 494.9 30.7 113.5 713.1 107.4 40.5 724.7 436.7 26.7 115.3 726.0 99.2 37.9 797.5 448.1 27.7 113.3 715.5 108.4 33.3 797.9 418.9 32.4 122.8 695.0 121.1 24.1 791.0 366.4 31.7 95.0 691.8 130.8 25.5 790.8 348.5 31.3 230.3 699.7 128.5 26.0 804.2 346.8 29.5 231.5 661.8 84.8 24.2 747.3 349.7 26.4 233.1 647.4 61.6 21.6 845.8 323.3 29.4 247.6 645.0 63.8 18.7 926.3 335.2 35.5 253.9 667.5 76.6 31.8 18.7 926.3 335.2 35.5 253.9 667.5 76.6 19.3 3910.7 358.0 33.1 266.8 656.9 35.5 14.0 850.0 327.6 32.7 282.5 681.4 36.0 13.3 879.5 322.5 32.5 293.0 689.3 28.7 9.7 965.6 360.0 38.2 284.3 696.2 24.3 8.9 947.3 349.9 39.5 287.6 686.4 12.0 868.5 296.7 38.1 134.2 569.2 13.9 54.4 897.9 8352.3 40.0 174.3 627.1 22.2	154.9         627.0         418.4         20.8         203.2         669.3         324.3         93.5           89.4         658.6         423.5         21.3         30.4         731.1         147.4         87.3           76.1         899.6         446.2         36.9         54.0         690.9         123.0         96.5           43.9         796.6         494.9         30.7         113.5         713.1         107.4         113.1           40.5         724.7         436.7         26.7         115.3         726.0         99.2         104.0           37.9         797.5         448.1         27.7         113.3         715.5         108.4         91.7           33.3         797.9         418.9         32.4         122.8         695.0         121.1         86.9           24.1         791.0         366.4         31.7         95.0         691.8         130.8         87.0           25.5         790.8         348.5         31.3         230.3         699.7         128.5         74.7           26.0         804.2         346.8         29.5         231.5         661.8         84.8         69.0           24.2         747	154.9         627.0         418.4         20.8         203.2         669.3         324.3         93.5         1,729.6           89.4         658.6         423.5         21.3         30.4         731.1         147.4         87.3         1,447.4           43.9         796.6         494.9         30.7         113.5         713.1         107.4         113.1         1,572.8           40.5         724.7         436.7         26.7         115.3         726.0         99.2         104.0         1,507.9           37.9         797.5         448.1         27.7         113.3         715.5         108.4         91.7         1,504.7           33.3         797.9         418.9         32.4         122.8         695.0         121.1         86.9         1,477.1           24.1         791.0         366.4         31.7         95.0         691.8         130.8         87.0         1,402.7           25.5         790.8         348.5         31.3         230.3         699.7         128.5         74.7         1,513.0           26.0         804.2         346.8         29.5         231.5         661.8         84.8         69.0         1,423.5 <td< th=""><th>154.9         627.0         418.4         20.8         203.2         669.3         324.3         93.5         1,729.6         R 0.8           89.4         658.6         423.5         21.3         30.4         731.1         147.4         87.3         1,441.0         R 0.5           76.1         899.6         446.2         36.9         54.0         690.9         123.0         96.5         1,447.4         R 0.3           43.9         796.6         494.9         30.7         113.5         713.1         107.4         113.1         1,572.8         R 0.2           40.5         724.7         436.7         26.7         115.3         726.0         99.2         104.0         1,507.9         R 0.2           37.9         797.5         448.1         27.7         113.3         715.5         108.4         91.7         1,504.7         R 0.2           33.3         797.9         418.9         32.4         122.8         695.0         121.1         86.9         1,477.1         R 0.2           24.1         791.0         366.4         31.7         95.0         691.8         130.8         87.0         1,402.7         R 0.4           25.5         790.8</th><th>154.9         627.0         418.4         20.8         203.2         669.3         324.3         93.5         1,729.6         R 0.8         129.5           89.4         658.6         423.5         21.3         30.4         731.1         147.4         87.3         1,441.0         R 0.5         69.0           76.1         899.6         446.2         36.9         54.0         690.9         123.0         96.5         1,447.4         R 0.3         132.7           43.9         796.6         494.9         30.7         113.5         713.1         107.4         113.1         1,572.8         R 0.2         78.0           40.5         724.7         436.7         26.7         115.3         726.0         99.2         104.0         1,507.9         R 0.2         78.0           37.9         797.5         448.1         27.7         113.3         715.5         108.4         91.7         1,504.7         R 0.2         75.9           33.3         797.9         418.9         32.4         122.8         695.0         121.1         86.9         1,477.1         R 0.2         79.8           24.1         791.0         366.4         31.7         95.0         691.8</th><th>154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R0.8 129.5 NA 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R0.5 69.0 0.0 761.1 899.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R0.3 132.7 0.0 43.9 796.6 494.9 30.7 113.5 713.1 107.4 113.1 1,572.8 R0.2 78.0 0.0 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 37.9 797.5 448.1 27.7 113.3 715.5 108.4 91.7 1,504.7 R0.2 75.9 0.2 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R0.2 75.9 0.2 75.9 0.2 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R0.4 37.5 2.7 25.5 790.8 348.5 31.3 230.3 699.7 128.5 74.7 1,513.0 R0.2 43.6 5.7 26.0 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,402.7 R0.4 37.5 2.7 24.2 747.3 349.7 264 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 21.6 845.8 323.3 29.4 247.6 645.0 63.8 62.5 1,371.6 R0.2 52.4 8.5 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R0.2 53.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 R0.2 R63.7 8.5 19.3 94.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 8.5 19.9 965.6 360.0 38.2 284.3 696.2 24.3 R62.8 R1,437.9 R0.2 R63.7 R8.4 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.4 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.5 P3.5 R1,285.3 R0.2 R68.8 7.4 P3.5 R8.9 947.3 849.9 93.5 287.6 686.4</th><th>154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R 0.8 129.5 NA NA 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R 0.5 69.0 0.0 0.1 147.4 89.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R 0.3 132.7 0.0 0.3 43.9 796.6 494.9 30.7 113.5 713.1 107.4 113.1 1,572.8 R 0.2 78.0 0.0 0.6 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R 0.3 71.4 0.0 0.7 37.9 797.5 448.1 27.7 113.3 726.0 99.2 104.0 1,507.9 R 0.3 71.4 0.0 0.7 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R 0.2 75.9 0.2 0.7 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R 0.2 79.8 4.8 0.8 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R 0.4 37.5 2.7 1.0 25.5 790.8 348.5 31.3 230.3 699.7 128.5 74.7 1,513.0 R 0.2 43.6 5.7 1.1 26.0 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,423.5 R 0.3 49.2 7.0 1.3 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R 0.2 48.3 7.0 1.2 21.6 845.8 323.3 29.4 247.6 645.0 63.8 62.5 1,371.6 R 0.2 52.4 8.5 1.2 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R 0.2 53.4 7.8 1.2 19.3 910.7 358.0 33.1 266.8 656.9 35.5 66.4 1,416.7 R 0.2 F3.4 7.8 1.2 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R 0.2 R 63.7 8.5 1.2 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R 0.2 R 63.7 8.5 1.2 13.3 879.5 322.5 32.5 293.0 689.3 28.7 R 64.4 R 1,430.3 R 0.3 R 63.5 8.2 1.2 13.3 879.5 322.5 32.5 293.0 689.3 28.7 R 64.4 R 1,430.3 R 0.3 R 63.5 8.2 1.2 13.3 879.5 826.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.7 7.8 1.2 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.7 7.8 1.2 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,</th><th>154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R0.8 129.5 NA NA NA 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R0.5 69.0 0.0 0.1 0.3 76.1 899.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R0.3 132.7 0.0 0.3 R0.5 43.9 796.6 494.9 30.7 113.5 713.1 107.4 113.1 1,572.8 R0.2 78.0 0.0 0.6 0.8 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 0.7 R0.9 37.9 797.5 448.1 27.7 113.3 715.5 108.4 91.7 1,504.7 R0.2 75.9 0.2 0.7 R1.1 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R0.2 79.8 48.0 0.8 R1.2 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R0.4 37.5 2.7 1.0 R1.2 25.5 790.8 348.5 31.3 230.3 699.7 128.5 74.7 1,513.0 R0.2 43.6 5.7 1.1 R1.4 26.0 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,423.5 R0.3 49.2 70.0 1.3 R1.5 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 1.2 R2.0 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R0.2 53.4 78.8 1.2 R2.0 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R0.2 53.4 78.8 1.2 R2.0 19.3 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R0.2 R6.7 R0.2 F7.0 7.1 2.8 R3.3 13.3 3879.5 322.5 32.5 233.0 689.3 28.7 R6.4 R1.40.7 R0.2 R6.7 R0.2 R7.0 7.7 1.2 R3.3 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R0.2 R6.3 7.8 1.2 R2.0 19.3 191.7 358.0 33.1 266.8 656.9 35.5 664.4 1,416.7 R0.2 R7.1 R0.2 R6.7 R.5 1.2 R2.0 19.3 191.7 358.0 32.7 282.5 681.4 36.0 71.2 1,431.4 R0.2 R6.3 7.8 1.2 R2.0 19.3 191.7 358.0 33.1 266.8 656.9 35.5 664.4 1,416.7 R0.2 R7.1 R0.2 R7.1 R0.2 R7.1 R0.2 R6.3 R0.2 R6.5 R1.4 R0.3 R0.3 R6.5 R0.2 R6.7 R.5 R0.2 R6.7 R.5 R0.2 R6.7 R.5 R0.2 R6.8 R1.4 R0.2 R6.8 R1.4 R0.2 R6.3 R0.2 R6.8 R1.4 R0.2 R6.3 R0.2 R6.8 R1.4 R0.2 R6.5 R0.2 R6.5 R0.2 R6.5 R0.2 R6.5 R1.4 R0.2 R6.5 R1.4 R</th><th>154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6</th><th>154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6</th><th>154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R0.8 129.5 NA NA NA 359.3 R2.938.5 R764.4 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R0.5 69.0 0.0 0.1 0.3 441.3 R2.699.7 R863.3 76.1 899.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R0.3 132.7 0.0 0.3 R0.5 484.6 R3.041.0 R925.1 40.5 724.7 436.7 26.7 115.5 713.1 107.4 113.1 1,572.8 R0.2 78.0 0.0 0.6 0.8 512.3 R3.005.8 R971.8 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 0.7 R0.9 485.3 R2.833.7 R855.0 37.9 797.5 448.1 27.7 113.3 715.5 108.4 91.7 1,504.7 R0.2 75.9 0.2 0.7 R1.1 505.6 R2.926.4 R860.9 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R0.2 79.8 48 0.8 R1.2 491.5 R2.888.9 R804.0 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R0.4 37.5 2.7 1.0 R1.2 477.8 R2.738.5 R766.1 25.5 790.8 348.5 31.3 250.3 699.7 128.5 74.7 1,513.0 R0.2 43.6 5.7 1.1 R1.4 495.5 R2.874.7 R815.3 260. 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,423.5 R0.2 48.3 7.0 12.8 R1.4 490.5 R2.844.4 R52.2 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 12.8 R1.7 488.5 R2.804.4 R52.2 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 12.8 R1.7 488.5 R2.701.5 R73.6 R73</th></td<>	154.9         627.0         418.4         20.8         203.2         669.3         324.3         93.5         1,729.6         R 0.8           89.4         658.6         423.5         21.3         30.4         731.1         147.4         87.3         1,441.0         R 0.5           76.1         899.6         446.2         36.9         54.0         690.9         123.0         96.5         1,447.4         R 0.3           43.9         796.6         494.9         30.7         113.5         713.1         107.4         113.1         1,572.8         R 0.2           40.5         724.7         436.7         26.7         115.3         726.0         99.2         104.0         1,507.9         R 0.2           37.9         797.5         448.1         27.7         113.3         715.5         108.4         91.7         1,504.7         R 0.2           33.3         797.9         418.9         32.4         122.8         695.0         121.1         86.9         1,477.1         R 0.2           24.1         791.0         366.4         31.7         95.0         691.8         130.8         87.0         1,402.7         R 0.4           25.5         790.8	154.9         627.0         418.4         20.8         203.2         669.3         324.3         93.5         1,729.6         R 0.8         129.5           89.4         658.6         423.5         21.3         30.4         731.1         147.4         87.3         1,441.0         R 0.5         69.0           76.1         899.6         446.2         36.9         54.0         690.9         123.0         96.5         1,447.4         R 0.3         132.7           43.9         796.6         494.9         30.7         113.5         713.1         107.4         113.1         1,572.8         R 0.2         78.0           40.5         724.7         436.7         26.7         115.3         726.0         99.2         104.0         1,507.9         R 0.2         78.0           37.9         797.5         448.1         27.7         113.3         715.5         108.4         91.7         1,504.7         R 0.2         75.9           33.3         797.9         418.9         32.4         122.8         695.0         121.1         86.9         1,477.1         R 0.2         79.8           24.1         791.0         366.4         31.7         95.0         691.8	154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R0.8 129.5 NA 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R0.5 69.0 0.0 761.1 899.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R0.3 132.7 0.0 43.9 796.6 494.9 30.7 113.5 713.1 107.4 113.1 1,572.8 R0.2 78.0 0.0 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 37.9 797.5 448.1 27.7 113.3 715.5 108.4 91.7 1,504.7 R0.2 75.9 0.2 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R0.2 75.9 0.2 75.9 0.2 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R0.4 37.5 2.7 25.5 790.8 348.5 31.3 230.3 699.7 128.5 74.7 1,513.0 R0.2 43.6 5.7 26.0 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,402.7 R0.4 37.5 2.7 24.2 747.3 349.7 264 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 21.6 845.8 323.3 29.4 247.6 645.0 63.8 62.5 1,371.6 R0.2 52.4 8.5 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R0.2 53.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 F3.4 7.8 19.3 910.7 358.0 33.1 266.8 656.9 35.5 664.1 1,416.7 R0.2 R0.2 R63.7 8.5 19.3 94.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 8.5 19.9 965.6 360.0 38.2 284.3 696.2 24.3 R62.8 R1,437.9 R0.2 R63.7 R8.4 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.4 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.9 947.3 349.9 39.5 287.6 686.4 12.0 R62.5 R1,437.9 R0.2 R63.7 R8.5 19.5 P3.5 R1,285.3 R0.2 R68.8 7.4 P3.5 R8.9 947.3 849.9 93.5 287.6 686.4	154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R 0.8 129.5 NA NA 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R 0.5 69.0 0.0 0.1 147.4 89.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R 0.3 132.7 0.0 0.3 43.9 796.6 494.9 30.7 113.5 713.1 107.4 113.1 1,572.8 R 0.2 78.0 0.0 0.6 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R 0.3 71.4 0.0 0.7 37.9 797.5 448.1 27.7 113.3 726.0 99.2 104.0 1,507.9 R 0.3 71.4 0.0 0.7 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R 0.2 75.9 0.2 0.7 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R 0.2 79.8 4.8 0.8 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R 0.4 37.5 2.7 1.0 25.5 790.8 348.5 31.3 230.3 699.7 128.5 74.7 1,513.0 R 0.2 43.6 5.7 1.1 26.0 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,423.5 R 0.3 49.2 7.0 1.3 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R 0.2 48.3 7.0 1.2 21.6 845.8 323.3 29.4 247.6 645.0 63.8 62.5 1,371.6 R 0.2 52.4 8.5 1.2 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R 0.2 53.4 7.8 1.2 19.3 910.7 358.0 33.1 266.8 656.9 35.5 66.4 1,416.7 R 0.2 F3.4 7.8 1.2 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R 0.2 R 63.7 8.5 1.2 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R 0.2 R 63.7 8.5 1.2 13.3 879.5 322.5 32.5 293.0 689.3 28.7 R 64.4 R 1,430.3 R 0.3 R 63.5 8.2 1.2 13.3 879.5 322.5 32.5 293.0 689.3 28.7 R 64.4 R 1,430.3 R 0.3 R 63.5 8.2 1.2 13.3 879.5 826.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.7 7.8 1.2 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.7 7.8 1.2 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,437.9 R 0.2 R 63.9 3.9 12.5 14.0 865.5 296.7 38.1 134.2 569.2 13.9 R 69.5 R 1,	154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R0.8 129.5 NA NA NA 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R0.5 69.0 0.0 0.1 0.3 76.1 899.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R0.3 132.7 0.0 0.3 R0.5 43.9 796.6 494.9 30.7 113.5 713.1 107.4 113.1 1,572.8 R0.2 78.0 0.0 0.6 0.8 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 0.7 R0.9 37.9 797.5 448.1 27.7 113.3 715.5 108.4 91.7 1,504.7 R0.2 75.9 0.2 0.7 R1.1 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R0.2 79.8 48.0 0.8 R1.2 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R0.4 37.5 2.7 1.0 R1.2 25.5 790.8 348.5 31.3 230.3 699.7 128.5 74.7 1,513.0 R0.2 43.6 5.7 1.1 R1.4 26.0 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,423.5 R0.3 49.2 70.0 1.3 R1.5 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 1.2 R2.0 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R0.2 53.4 78.8 1.2 R2.0 18.7 926.3 335.2 35.5 253.9 667.5 57.6 64.5 1,414.1 R0.2 53.4 78.8 1.2 R2.0 19.3 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R0.2 R6.7 R0.2 F7.0 7.1 2.8 R3.3 13.3 3879.5 322.5 32.5 233.0 689.3 28.7 R6.4 R1.40.7 R0.2 R6.7 R0.2 R7.0 7.7 1.2 R3.3 14.0 850.0 327.6 32.7 282.5 681.4 36.0 71.2 1,431.4 R0.2 R6.3 7.8 1.2 R2.0 19.3 191.7 358.0 33.1 266.8 656.9 35.5 664.4 1,416.7 R0.2 R7.1 R0.2 R6.7 R.5 1.2 R2.0 19.3 191.7 358.0 32.7 282.5 681.4 36.0 71.2 1,431.4 R0.2 R6.3 7.8 1.2 R2.0 19.3 191.7 358.0 33.1 266.8 656.9 35.5 664.4 1,416.7 R0.2 R7.1 R0.2 R7.1 R0.2 R7.1 R0.2 R6.3 R0.2 R6.5 R1.4 R0.3 R0.3 R6.5 R0.2 R6.7 R.5 R0.2 R6.7 R.5 R0.2 R6.7 R.5 R0.2 R6.8 R1.4 R0.2 R6.8 R1.4 R0.2 R6.3 R0.2 R6.8 R1.4 R0.2 R6.3 R0.2 R6.8 R1.4 R0.2 R6.5 R0.2 R6.5 R0.2 R6.5 R0.2 R6.5 R1.4 R0.2 R6.5 R1.4 R	154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6	154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6	154.9 627.0 418.4 20.8 203.2 669.3 324.3 93.5 1,729.6 R0.8 129.5 NA NA NA 359.3 R2.938.5 R764.4 89.4 658.6 423.5 21.3 30.4 731.1 147.4 87.3 1,441.0 R0.5 69.0 0.0 0.1 0.3 441.3 R2.699.7 R863.3 76.1 899.6 446.2 36.9 54.0 690.9 123.0 96.5 1,447.4 R0.3 132.7 0.0 0.3 R0.5 484.6 R3.041.0 R925.1 40.5 724.7 436.7 26.7 115.5 713.1 107.4 113.1 1,572.8 R0.2 78.0 0.0 0.6 0.8 512.3 R3.005.8 R971.8 40.5 724.7 436.7 26.7 115.3 726.0 99.2 104.0 1,507.9 R0.3 71.4 0.0 0.7 R0.9 485.3 R2.833.7 R855.0 37.9 797.5 448.1 27.7 113.3 715.5 108.4 91.7 1,504.7 R0.2 75.9 0.2 0.7 R1.1 505.6 R2.926.4 R860.9 33.3 797.9 418.9 32.4 122.8 695.0 121.1 86.9 1,477.1 R0.2 79.8 48 0.8 R1.2 491.5 R2.888.9 R804.0 24.1 791.0 366.4 31.7 95.0 691.8 130.8 87.0 1,402.7 R0.4 37.5 2.7 1.0 R1.2 477.8 R2.738.5 R766.1 25.5 790.8 348.5 31.3 250.3 699.7 128.5 74.7 1,513.0 R0.2 43.6 5.7 1.1 R1.4 495.5 R2.874.7 R815.3 260. 804.2 346.8 29.5 231.5 661.8 84.8 69.0 1,423.5 R0.2 48.3 7.0 12.8 R1.4 490.5 R2.844.4 R52.2 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 12.8 R1.7 488.5 R2.804.4 R52.2 24.2 747.3 349.7 26.4 233.1 647.4 61.6 64.9 1,383.2 R0.2 48.3 7.0 12.8 R1.7 488.5 R2.701.5 R73.6 R73

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, New York

Coal					Petro	oleum		Biomass						
Thousand   Billion   Thousand barries		Coal <sup>a</sup>			HGL °	Kerosene	Total				Electricity <sup>9</sup>		Electrical	
2006 13 466 36,797 4,795 1,803 12,775	Year		Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>		End use e,h	energy losses	Total <sup>e,h</sup>
2008 13 486 28.797 4.955 1.803 32.755	1960	1.158	225	44.927	1.952	4.174	51.054				12.496			
2006 13 4956 26,797 4,195 1,803 32,755	1965	735	288	57,623	2,065	4,161	63,849				17,027			
2006 13 495 26,797 4,795 1,803 32,775	1970	373	347	60,128	2,550	5,581	68,259				25,492			
2006 13 495 26,797 4,795 1,803 32,775	1975	128	327	55,966	2 820	3,746	62,533				28,710			
2006 13 495 26,797 4,795 1,803 32,775	1980	75	334	37,690	2,301	1,723	41,714				30,583			
2006 13 495 26,797 4,795 1,803 32,775	1985	95 55	320	34,608	2,958	3,219 1.765	40,784 37,023				32,757			
2006 13 495 26,797 4,795 1,803 32,775	1995	29	375	28 624	4 139	1,703	34,023				39,887			
2006 13 495 26,797 4,795 1,803 32,775	2000	11	400	35.229	5.693	2.344	43.266				43.018			
2008 0 394 28,139 5,885 661 34,685 49,034	2005	13	406	35,054	4,661	2,203	41,917				50,533			
2008 0 394 28,139 5,885 661 34,685 49,034	2006	13	356	26,797	4,155	1,803	32,755				48,427			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2007	13	400	30,101	4,771	1,318	36,190				50,241			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2008	0	394	28,139	5,885	661	34,685				49,034			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2009	0	405 300	20,755	5,940 5.791	9/3	27,008				48,246 50.046			==
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2010	0	394	18 454	5 146	726	20,301				51 240			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2012	ŏ	358	21.943	4.381	365	26.689				50.692			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2013	Ō	416	18,199	5,051	394	23,644				50,777			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2014	0	458	19,682	6,463	672	26,817				49,975			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2015	0	452	21,140	5,849	458	27,448				51,013			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2016	0	412	15,511	5,529	602	21,642				50,831			
2020 0 437 13,495 6,652 551 20,699 52,157	2017	0	433	14,519	5,698	402 276	20,619				49,081			
2020 0 437 13,495 6,652 551 20,699 52,257 52,27	2019		474	18 350	7,030	576 576	26,170				50 141			
Trillion Btu	2020	Ŏ	437	13,495	6,652	551	20,699				52,257			
Trillion Btu	2021		446	17,739	6,656	440	24,836				52,157			
1960	2022	0	450	17,968	6,300	396	24,663				52,227			
1980   28.6   222.5   225.5   226.1 7   7.5   23.7   232.9   25.9   NA								Trillion Btu						
1965 17.9 295.0 335.7 7.9 23.6 367.2 21.4 NA NA SA 58.1 759.6 F114.3 F873.9 1970 8.8 353.8 350.2 9.8 31.6 391.7 21.9 NA NA NA 98.0 813.2 F200.0 F1.041.3 1975 2.9 332.2 326.0 10.8 21.2 358.1 22.1 NA NA NA 98.0 813.2 F200.0 F1.043.2 1980 1.8 341.5 219.5 8.8 9.8 238.1 79.2 NA NA NA 104.3 763.5 F22.0 F98.4 1985 2.3 328.8 201.6 11.4 18.3 231.2 73.1 NA NA NA 111.8 746.4 F227.1 F973.5 1990 1.4 347.9 183.6 14.4 10.0 208.0 38.0 (s) 0.3 131.6 727.0 F259.0 F98.5 1995 0.7 386.7 166.6 15.9 7.0 189.5 52.4 0.1 0.4 136.1 765.4 F241.6 F1.007.0 2000 0.3 413.1 205.0 21.9 13.3 240.2 82.5 0.1 0.5 146.8 883.2 F200.2 F1.183.2 2005 0.3 416.9 203.9 17.9 12.5 234.3 50.4 0.1 0.8 172.4 875.2 F327.1 F1.202.3 2006 0.3 364.3 155.5 16.0 10.2 181.7 44.7 0.1 F0.9 165.2 F375.2 F327.1 F1.202.3 2007 0.3 409.9 174.1 18.3 7.5 199.9 49.4 0.2 F1.0 171.4 832.1 F291.9 F1.124.0 2008 0.0 402.7 162.6 22.6 3.7 189.0 55.2 0.2 F1.1 167.3 F815.6 F273.7 F1.202.3 2009 0.0 413.6 119.9 22.8 5.5 148.2 19.3 0.2 F1.2 167.3 F815.6 F273.7 F1.202.3 2009 0.0 404.3 106.5 19.8 41.1 130.4 20.1 0.7 F1.3 173.8 F373.7 F2.6 5.9 F2.0 1.0 10.4 F1.3 173.8 F373.7 F2.0 11.0 10.4 F1.3 173.8 F373.7 F2.0 11.0 10.4 F273.1 F2.0 11.0 10.4 F273.1 F2.0 11.0 11.0 F2.0 11.0 F2.0 F2.0 F2.0 F2.0 F2.0 F2.0 F2.0 F2	1960	28.6	232.5	261.7	7.5	23.7	292.9	25.9	NA	NA	42.6	622.5	R 86.0	R 708.4
1970 8.8 353.8 350.2 9.8 31.6 391.7 21.9 NA NA 87.0 863.2 178.2 170.41.3 1975 2.9 332.2 326.0 10.8 21.2 358.1 22.1 NA NA NA 98.0 813.2 190.0 11.01.2 1980 1.8 341.5 219.5 8.8 9.8 238.1 79.2 NA NA NA 104.3 763.5 120.0 1995.4 1995 1.4 347.9 183.6 14.4 10.0 208.0 38.0 (s) 0.3 131.6 727.0 125.0 1995.1 14.0 14.0 15.0 15.0 1.0 1.0 14.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	1965	17.9	295.0	335.7	7.9	23.6	367.2	21.4	NA	NA	58.1	759.6	R 114.3	R 873.9
1996	1970	8.8	353.8	350.2	9.8	31.6	391.7	21.9	NA		87.0	863.2	H 178.2	H 1,041.3
1880 1.8 341.5 219.5 8.8 9.8 238.1 79.2 NA NA 104.3 763.5 222.0 1 996.3 1990 1.4 347.9 183.6 14.4 10.0 208.0 38.0 (s) 0.3 131.6 727.0 8259.0 896.3 1990 1.4 347.9 183.6 14.4 10.0 208.0 38.0 (s) 0.3 131.6 727.0 8259.0 896.0 1995 0.7 386.7 166.6 15.9 7.0 189.5 52.4 0.1 0.4 136.1 765.4 8241.6 81.007.0 2000 0.3 413.1 205.0 21.9 13.3 240.2 82.5 0.1 0.5 146.8 883.2 8280.2 828.2 120.6 14.6 82.0 14.6 14.0 14.0 15.0 14.0 14.0 15.0 15.0 14.0 15.0 14.0 15.0 14.0 15.0 15.0 14.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	1975	2.9	332.2	326.0	10.8		358.1	22.1	NA		98.0	813.2	P 200.0	n 1,013.2
1990 1.4 347.9 183.6 14.4 10.0 208.0 38.0 (s) 0.3 131.6 727.0 R259.0 R986.0 1995 0.7 386.7 166.6 15.9 7.0 189.5 52.4 0.1 0.4 136.1 765.4 R241.6 R1.007.0 2000 0.3 413.1 205.0 21.9 13.3 240.2 82.5 0.1 0.5 146.8 883.2 R280.2 R1.163.4 2005 0.3 341.0 2000 0.3 341.1 205.0 11.9 12.5 234.3 50.4 0.1 0.8 172.4 875.2 R27.1 R1.202.3 2006 0.3 364.3 155.5 16.0 10.2 181.7 44.7 0.1 R9.9 165.2 R75.2 R27.1 R1.202.3 2007 0.3 40.9 174.1 18.3 7.5 199.9 49.4 0.2 R1.0 171.4 832.1 R291.9 R1.124.0 2008 0.0 402.7 162.6 22.6 3.7 189.0 55.2 0.2 R1.2 167.3 R815.6 R273.7 R1.093.2 2009 0.0 413.6 119.9 22.8 5.5 148.2 19.3 0.2 R1.2 167.3 R815.6 R273.7 R20.1 2010 0.0 399.7 114.2 22.2 5.7 142.1 20.7 0.3 R1.3 173.8 R73.7 R26.3 R1.012.2 2011 0.0 404.3 106.5 19.8 4.1 130.4 20.1 0.7 R1.3 174.8 R73.7 R26.6 R99.2 2012 0.0 369.2 126.5 16.8 2.1 145.4 16.8 0.4 R1.4 173.0 R706.3 R251.4 R99.9 2014 0.0 473.6 113.4 24.8 3.8 12.1 145.4 16.8 0.4 R1.4 173.0 R706.3 R251.4 R99.9 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 R1.5 173.3 R75.5 R25.2 R26.5 R1.056.2 2015 0.0 467.0 121.8 22.5 2.6 146.9 R36.8 0.4 R1.4 173.0 R706.3 R251.4 R99.9 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 R1.5 173.3 R75.5 R25.2 R25.5 R1.056.2 2015 0.0 467.0 121.8 22.5 2.6 146.9 R36.8 0.4 R1.4 173.0 R706.3 R251.4 R99.7 2013 0.0 430.8 104.9 19.4 2.2 12.6 5 16.8 142.1 22.2 0.4 R1.5 173.3 R75.5 R25.2 R1.056.2 2015 0.0 467.0 121.8 22.5 2.6 146.9 R36.8 0.4 R1.4 173.0 R706.3 R251.4 R99.7 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 R1.5 173.3 R75.5 R25.2 R1.056.2 2015 0.0 467.0 121.8 22.5 2.6 146.9 R36.8 0.4 R3.8 167.5 R36.6 R24.6 R39.3 21.2 3.4 113.9 R25.5 0.4 R3.8 167.5 R56.6 R24.6 R39.9 2017 0.0 446.6 83.6 21.9 2.3 107.7 R25.5 0.4 R3.2 173.4 R74.6 R24.5 R1.056.2 R20.0 R36.8 0.4 R3.8 167.5 R56.6 R24.6 R39.3 21.2 3.4 113.9 R25.5 0.4 R3.8 167.5 R56.6 R24.6 R39.3 21.2 3.4 113.9 R25.5 0.4 R3.8 167.5 R56.6 R24.6 R39.3 21.2 3.4 113.9 R25.5 0.4 R3.8 167.5 R56.6 R24.6 R39.3 2018 0.0 446.6 83.6 21.9 2.3 107.7 R25.5 0.4 R3.4 R3.4 R4.9 171.1 R36.9 R25.5 R1.056.2 R20.0 R36.8 R36.8 R36.8 R36.8 R36.8 R36.8	1980	1.8	341.5	219.5	8.8	9.8	238.1	79.2 73.1	IVA NA		104.3	763.5 746.4	R 222.0	R 985.4
1995 0.7 386.7 186.6 15.9 7.0 189.5 52.4 0.1 0.4 136.1 765.4 8.24 6 8.1007.0 199.5 0.3 416.9 203.9 17.9 12.5 234.3 50.4 0.1 0.5 146.8 883.2 82.7 1 8.202.8 11.63.4 2005 0.3 416.9 203.9 17.9 12.5 234.3 50.4 0.1 0.5 146.8 883.2 82.7 1 8.202.1 18.3 2006 0.3 364.3 155.5 16.0 10.2 181.7 44.7 0.1 8.9 165.2 87.7 821.1 81.202.3 2006 0.3 304.3 155.5 16.0 10.2 181.7 44.7 0.1 8.9 165.2 87.7 821.1 81.202.3 2008 0.0 40.2 16.6 22.6 3.7 189.0 55.2 0.2 81.0 10.1 71.4 832.1 829.9 91.9 1.41.2 2008 0.0 402.7 162.6 22.6 3.7 189.0 55.2 0.2 81.2 167.3 815.6 827.3 81.0 81.0 81.0 81.0 81.0 81.0 81.0 81.0	1990	1.3	320.0	183.6	11.4	10.3	201.2	38.0			131.6	740.4 727.0	R 259 0	R 986 0
2000         0.3         413.1         205.0         21.9         13.3         240.2         82.5         0.1         0.5         146.8         883.2         R 280.2         R 1,163.4           2005         0.3         416.9         203.9         17.9         12.5         234.3         50.4         0.1         0.8         172.4         875.2         R 327.1         R 1,202.3           2006         0.3         364.3         155.5         16.0         10.2         181.7         44.7         0.1         R 0.9         165.2         R 757.2         R 291.1         R 1,048.3           2007         0.3         409.9         174.1         18.3         7.5         199.9         49.4         0.2         R 1.0         171.4         832.1         R 291.9         R 1,122.3           2008         0.0         402.7         162.6         22.6         3.7         189.0         55.2         0.2         R 1.2         167.3         818.6         R 273.7         R 1,089.3           2009         0.0         413.6         119.9         22.8         5.5         148.2         19.3         0.2         R 1.2         164.6         R 747.3         R 263.9         R 1,011.2	1995	0.7	386.7	166.6	15.9	7.0	189.5	52.4	0.1	0.4	136.1	765.4	R 241.6	R 1.007.0
2005 0.3 416.9 203.9 17.9 12.5 234.3 50.4 0.1 0.8 172.4 875.2 R327.1 R1202.3 2006 0.3 364.3 155.5 16.0 10.2 181.7 44.7 0.1 R0.9 165.2 R757.2 R291.1 R1.048.3 2007 0.3 409.9 174.1 18.3 7.5 199.9 49.4 0.2 R1.0 171.4 832.1 R291.9 R1.124.0 2008 0.0 402.7 162.6 22.6 3.7 189.0 55.2 0.2 R1.2 167.3 R815.6 R273.7 R1.089.3 2009 0.0 413.6 119.9 22.8 5.5 148.2 19.3 0.2 R1.2 164.6 R747.3 R263.9 R1.011.2 2010 0.0 399.7 114.2 22.2 5.7 142.1 20.7 0.3 R1.3 173.8 R737.9 R287.2 R1.025.1 2011 0.0 404.3 106.5 19.8 4.1 130.4 20.1 0.7 R1.3 173.8 R737.9 R287.2 R1.025.1 2012 0.0 369.2 126.5 16.8 2.1 145.4 16.8 0.4 R1.4 173.0 R76.3 R251.4 R957.7 2013 0.0 430.8 104.9 19.4 2.2 126.5 21.9 0.4 R1.5 173.3 R54.5 R252.2 R1.006.7 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 R1.8 170.5 R810.7 R245.5 R1.056.2 2014 0.0 467.0 121.8 22.5 2.6 146.9 R36.8 0.4 R2.4 174.1 R827.6 R245.5 R1.056.2 2016 0.0 425.6 89.3 21.2 3.4 113.9 R29.5 0.4 R3.2 173.4 R746.0 R240.9 R986.9 2016 0.0 425.6 89.3 21.2 3.4 113.9 R29.5 0.4 R3.2 173.4 R746.0 R240.9 R986.9 2016 0.0 425.6 89.3 21.2 3.4 113.9 R29.5 0.4 R3.2 173.4 R746.0 R240.9 R986.9 2017 0.0 446.6 83.6 21.9 2.3 107.7 R28.5 0.4 R3.2 173.4 R746.0 R240.9 R986.9 2018 0.0 501.6 107.7 27.3 2.1 137.1 R34.7 0.4 R4.3 177.9 R856.1 R242.4 R1.098.5 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R837.9 R225.5 R1.063.4 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R837.9 R225.5 R1.063.4 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R837.9 R225.5 R1.063.4 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R837.9 R225.5 R1.063.4 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R837.9 R225.5 R1.063.4 2019 0.0 489.9 105.2 25.6 2.5 130.3 R23.4 0.4 R5.6 178.0 R79.5 R223.7 R1.0213.2 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R837.9 R225.5 R1.063.4 2019 0.0 489.9 105.2 25.6 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R79.5 R223.7 R1.0213.2 2019 0.0 489.9 105.2 25.6 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R79.5 R223.7 R1.0213.2 2019 0.0 489.9 105.2 25.6 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R79.5	2000	0.3	413.1	205.0	21.9	13.3	240.2	82.5	0.1	0.5	146.8	883.2	R 280.2	R 1,163.4
2006 0.3 364.3 155.5 16.0 10.2 181.7 44.7 0.1 H0.9 165.2 H757.2 H291.1 H1.048.3 207 0.3 409.9 174.1 18.3 7.5 199.9 49.4 0.2 H1.0 171.4 832.1 R291.9 H1.124.0 2008 0.0 402.7 162.6 22.6 3.7 189.0 55.2 0.2 H1.2 167.3 R815.6 R273.7 R1.089.3 2009 0.0 413.6 119.9 22.8 5.5 148.2 19.3 0.2 R1.2 164.6 R747.3 R263.9 R1.011.2 2010 0.0 399.7 114.2 22.2 5.7 142.1 20.7 0.3 R1.3 173.8 R737.9 R267.0 R1.025.1 2011 0.0 404.3 106.5 19.8 4.1 130.4 20.1 0.7 R1.3 174.8 R731.7 R267.6 R99.2 2012 0.0 369.2 126.5 16.8 2.1 145.4 16.8 0.4 R1.4 173.0 R763.3 R251.4 R957.7 2013 0.0 430.8 104.9 19.4 2.2 126.5 21.9 0.4 R1.5 173.3 R754.5 R252.2 R1.006.7 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 R1.8 170.5 R810.7 R245.5 R1.056.2	2005	0.3	416.9	203.9	17.9	12.5	234.3	50.4	0.1	0.8	172.4	875.2	R 327.1	R 1,202.3
2007 0.3 499.9 174.1 18.3 7.5 199.9 49.4 0.2 11.0 171.4 832.1 1291.9 11.124.0 2008 0.0 402.7 162.6 22.6 3.7 189.0 55.2 0.2 11.2 164.6 167.3 1815.6 1273.7 19.089.3 2009 0.0 413.6 119.9 22.8 5.5 148.2 19.3 0.2 11.2 164.6 1747.3 174.8 175.1 174.1 174.1 175.0 175.1 174.1 175.1 17	2006	0.3	364.3	155.5	16.0	10.2	181.7	44.7	0.1	H 0.9	165.2	H 757.2	H 291.1	H 1,048.3
2006 0.0 442.7 102.6 22.6 3.7 169.0 35.2 0.2 1.2 167.3 167.3 173.8 174.3	2007	0.3	409.9	1/4.1	18.3	7.5	199.9	49.4	0.2	" 1.0 B 1.0	1/1.4	832.1 B 015.6	11 291.9 B 070.7	1 1,124.0 B 1 000 2
2010 0.0 399.7 114.2 22.2 5.7 142.1 20.7 0.3 R1.3 173.8 R737.9 R287.2 R10.25.1 2011 0.0 404.3 106.5 19.8 4.1 130.4 20.1 0.7 R1.3 174.8 R731.7 R267.6 R999.2 2012 0.0 369.2 126.5 16.8 2.1 145.4 16.8 0.4 R1.4 173.0 R706.3 R251.4 R957.7 2013 0.0 430.8 104.9 19.4 2.2 126.5 21.9 0.4 R1.5 173.3 R754.5 R252.2 R1.006.7 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 R1.8 170.5 R810.7 R245.5 R10.56.2 2015 0.0 467.0 121.8 22.5 2.6 146.9 R36.8 0.4 R2.4 174.1 R267.6 R245.5 R1.073.1 2016 0.0 425.6 89.3 21.2 3.4 113.9 R29.5 0.4 R3.2 173.4 R746.0 R240.9 R986.9 2017 0.0 446.6 83.6 21.9 2.3 107.7 R28.5 0.4 R3.2 173.4 R746.0 R240.9 R986.9 2017 0.0 446.6 83.6 21.9 2.3 107.7 R28.5 0.4 R3.2 173.4 R746.0 R240.9 R986.9 2018 0.0 501.6 107.7 27.3 2.1 137.1 R34.7 0.4 R3.2 173.4 R746.0 R240.9 R999.3 2018 0.0 501.6 107.7 27.3 2.1 137.1 R34.7 0.4 R4.3 177.9 R856.1 R242.4 R1.098.5 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R37.9 R25.5 R1.063.4 R20.9 0.0 451.8 77.7 25.6 3.1 106.4 R22.0 0.4 R4.9 171.1 R37.9 R25.5 R1.063.4 R20.9 R99.2 2020 0.0 451.8 77.7 256.6 3.1 106.4 R22.0 0.4 R4.9 171.1 R37.9 R25.5 R223.7 R1.023.3 2020 0.0 451.8 77.7 256.6 3.1 106.4 R22.0 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 2.5 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 2.5 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 102.2 25.6 25 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3 2020 0.0 450.9 R1.0 R1.0 R1.0 R1.0 R1.0 R1.0 R1.0 R1.0	2008	0.0	402.7 413.6	162.6	22.6	3.7 5.5	189.0	55.2 10.3	0.2	" 1.2 R 1 2	167.3	1,812.6 B 242.3	R 263.0	11,089.3 R 1 011 2
2011 0.0 404.3 106.5 19.8 4.1 130.4 20.1 0.7 R1.3 174.8 R731.7 R267.6 R999.2 2012 0.0 369.2 126.5 16.8 2.1 145.4 16.8 0.4 R1.4 173.0 R706.3 R251.4 R957.7 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 R1.8 170.5 R810.7 R245.5 R1.056.2 2015 0.0 467.0 121.8 22.5 2.6 146.9 R36.8 0.4 R2.4 174.1 R827.6 R245.5 R1.073.1 13.9 R2016 0.0 425.6 89.3 21.2 3.4 113.9 R29.5 0.4 R3.2 173.4 R746.0 R240.9 R96.9 2017 0.0 446.6 83.6 21.9 2.3 107.7 R28.5 0.4 R3.8 167.5 R754.6 R24.6 R979.3 2018 0.0 501.6 107.7 27.3 2.1 137.1 R34.7 0.4 R4.3 177.9 R856.1 R242.4 R1.098.5 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.3 177.9 R856.1 R242.4 R1.098.5 2020 0.0 485.8 77.7 25.6 3.1 106.4 R22.0 0.4 R5.2 178.3 R764.1 R227.9 R1.053.3 R251.3 R251.3 R251.3 R252.3	2010	0.0	399.7	114.2	22.0	5.5	140.2	20.7	0.2	R 1.3	173.8	R 737 9	R 287 2	R 1 025 1
2012 0.0 369.2 126.5 16.8 2.1 145.4 16.8 0.4 81.4 173.0 8.706.3 8.251.4 8.957.7 2013 0.0 430.8 104.9 19.4 2.2 126.5 21.9 0.4 81.5 173.3 8.754.5 8.252.2 81,006.7 2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 81.8 170.5 8810.7 8.245.5 81,007.8 120.1	2011	0.0	404.3	106.5	19.8	4.1	130.4	20.1	0.7	R 1.3	174.8	R 731.7	R 267.6	R 999.2
2013	2012	0.0	369.2	126.5	16.8	2.1	145.4	16.8	0.4	R 1.4	173.0	R 706.3	R 251.4	R 957.7
2014 0.0 473.6 113.4 24.8 3.8 142.1 22.2 0.4 H1.8 170.5 H810.7 H245.5 H1,056.2 25.0 0.0 467.0 121.8 22.5 2.6 146.9 H36.8 0.4 H2.4 174.1 H827.6 H245.5 H1,073.1 2016 0.0 425.6 89.3 21.2 3.4 113.9 H29.5 0.4 H3.2 173.4 H746.0 H240.9 H986.9 2017 0.0 446.6 83.6 21.9 2.3 107.7 H28.5 0.4 H3.2 173.4 H746.0 H240.9 H986.9 2018 0.0 501.6 107.7 27.3 2.1 137.1 H34.7 0.4 H3.8 167.5 H754.6 H224.6 H979.3 2018 0.0 501.6 107.7 27.3 2.1 137.1 H34.7 0.4 H4.3 177.9 H856.1 H242.4 H1,098.5 2019 0.0 488.9 105.7 28.3 3.3 137.2 H35.4 0.4 H4.9 171.1 H837.9 H255.5 H1,063.4 2020 0.0 451.8 77.7 256.6 3.1 106.4 H2.20 0.4 H5.2 178.3 H764.1 H227.9 H992.0 2021 0.0 459.9 102.2 25.6 2.5 130.3 H23.4 0.4 H5.6 178.0 H797.5 H223.7 H1,021.3 H20.5	2013	0.0	430.8	104.9	19.4	2.2	126.5	21.9	0.4	R 1.5	173.3	R 754.5	R 252.2	R 1,006.7
2015	2014	0.0	473.6	113.4	24.8	3.8	142.1	22.2	0.4	H 1.8	170.5	H 810.7	H 245.5	<sup>H</sup> 1,056.2
2017 0.0 446.6 83.6 21.9 2.3 107.7 R28.5 0.4 R3.8 167.5 R754.6 R224.6 R979.3 2018 0.0 501.6 107.7 27.3 2.1 137.1 R34.7 0.4 R4.3 177.9 R856.1 R242.4 R1.098.5 2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R34.7 R37.9 R25.5 R1.063.4 R20.0 0.0 451.8 77.7 25.6 3.1 106.4 R22.0 0.4 R5.2 178.3 R764.1 R227.9 R992.0 2021 0.0 459.9 102.2 25.6 2.5 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1.021.3	2015	0.0	467.0	121.8	22.5	2.6	146.9	n 36.8	0.4	n 2.4	174.1	R 827.6	D 245.5	□ 1,073.1 Bose c
2018 0.0 501.6 107.7 27.3 2.1 137.1 P34.7 0.4 P4.9 177.1 P356.1 P242.4 P1,998.5 2019 0.0 488.9 105.7 28.3 3.3 137.2 P35.4 0.4 P4.9 171.1 P357.9 P356.1 P242.5 P1,063.4 P4.9 171.1 P357.9 P356.1 P242.7 P35.0 P1,063.4 P4.9 P35.0 P1,063.8	2016	0.0	425.6 446.6	89.3	21.2	3.4	113.9	R 29.5	0.4	R 2 9	1/3.4 167 F	746.0 R 754.6	R 224 6	R 070 3
2019 0.0 488.9 105.7 28.3 3.3 137.2 R35.4 0.4 R4.9 171.1 R837.9 R225.5 R1,063.4 2020 0.0 451.8 77.7 25.6 3.1 106.4 R22.0 0.4 R5.2 178.3 R764.1 R227.9 R992.0 2021 0.0 459.9 102.2 25.6 2.5 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1,021.3	2017	0.0	501 A	107 7	21.8 27.3	2.3 2.1	137.7	R 34 7	0.4 0.4	R 4 3	107.3 177 Q	R 856 1	R 2420	R 1 098 5
2020 0.0 451.8 77.7 25.6 3.1 106.4 R22.0 0.4 R5.2 178.3 R764.1 R227.9 R992.0 2021 0.0 459.9 102.2 25.6 2.5 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1,021.3	2019	0.0	488.9	105.7	28.3	3.3	137.2	R 35 4	0.4	R 4.9	171.3	R 837.9	R 225.5	R 1.063.4
2021 0.0 459.9 102.2 25.6 2.5 130.3 R23.4 0.4 R5.6 178.0 R797.5 R223.7 R1,021.3	2020	0.0	451.8	77.7	25.6	3.1	106.4	R 22.0	0.4	R 5.2	178.3	P 764.1	R 227.9	_ R'992.0
0000 00 4640 4006 040 00 4004 04 06 4700 0000 0400 40040	2021	0.0	459.9	102.2	25.6	2.5	130.3	R 23.4	0.4	R 5.6	178.0	R 797.5	R 223.7	R 1,021.3
2022 0.0 404.2 103.0 24.2 2.2 130.0 26.1 0.4 6.6 178.2 805.2 219.6 1,024.8	2022	0.0	464.2	103.6	24.2	2.2	130.0	26.1	0.4	6.6	178.2	805.2	219.6	1,024.8

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

					Pet	roleum			Lludua	Biomass						
1	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Milli kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	805	63	15,225	554	468	636	28,208	45,091	NA			NA	17,546			
1965	555	63 87	19,527	554 586	467	828	37,514	58,921	NA			NA	23,528			
1970 1975	293 300	139 128	20,376 18,965	723 800	626 420	1,052 1,162	43,318 28,482	66,096 49,830	NA NA			NA NA	32,790 37,827			
1980	283	162	14,492	653	169	1,035	25,431	41,779	NA			NA	40,471			
1985 1990	339 218	165 195	13,215 15,415	839 1,061	862 269	1,911 1,201	16,677 17,400	33,505 35,345	NA 7			NA (s)	48,816 56,025			
1995	191	231	15,711	1,174	714	208	13,555	31,362	4			(1)	62,509			
2000	90 147	366 276	15,128 18.086	1,615 1,108	948 759	202 235	9,429 10.066	27,322 30,254	4			1 3	70,417 76,822			
2006	127	260	15,602	1,145	354	284	7,941	25,326	5			6	76,029			
2007 2008	119 68	285 290	14,606 13.447	1,276 1.641	244 128	263 209	8,723 7.685	25,112 23,110	4 (s)			7 8	74,326 77,416			
2009	22	281	12,062	1,724	169	212	8,571	22,738	4			12	75,347			
2010 2011	3	287 291	10,050 10,310	1,718 1,797	154 168	180 186	7,835 7.089	19,937 19,551	3		==	24 43	77,276 76,406			
2012	0	270	8,602	1,558	60	174	4,237	14,630	4			91	76,018			
2013 2014	0	301 320	9,223 8,434	1,693 1,776	28 54	189 193	3,139 846	14,273 11,303	6			127 183	76,342 76,541			
2014	0	311	9,634	1,776	28	3,102	312	14,967	5			262	77,006			
2016	0	303	8,095	2,061	57	3,080	312	13,605	4			317	76,507			
2017 2018	0	310 330	7,935 8,111	2,023 2,118	31 41	3,070 3,064	285 156	13,343 13,491	6			439 616	75,333 76,745			
2019	0	323	8,364	2,200	74	3,088	117	13,842	6			806	75,091			
2020 2021	0	289 298	6,437 R 8,452	2,472 2,731	54 42	3,113 3,146	90 188	12,165 R 14,560	6 8			1,148 1,465	68,989 69,920			
2022	Ö	304	8,451	2,651	38	3,822	193	15,155	5			1,930	72,206			
								Tri	lion Btu							
1960	19.9 13.5	65.2 88.8	88.7	2.1 2.3	2.7	3.3 4.3	177.3	274.2	NA	0.5	NA	NA	59.9	419.6	R 120.7	R 540.3
1965 1970	13.5 6.9	88.8 142.4	113.7 118.7	2.3 2.8	2.6 3.5	4.3 5.5	235.9 272.3	358.8 402.9	NA NA	0.4 0.4	NA NA	NA NA	80.3 111.9	541.8 664.5	R 157.9 R 229.2	R 699.7 R 893.7
1975	6.8	130.2	110.5	3.1	2.4	6.1	179.1	301.1	NA	0.4	NA	NA	129.1	567.5	R 263.5	R 831.0 R 858.4
1980 1985	6.6 8.1	165.5 170.0	84.4 77.0	2.5 3.2	1.0 4.9	5.4 10.0	159.9 104.8	253.2 200.0	NA NA	2.0 1.7	NA NA	NA NA	138.1 166.6	564.6 545.9	R 293.8 R 338.5	R 858.4 R 884.4
1990	5.4	200.7	89.8	4.1	1.5	6.3	109.4	211.1	R (s)	4.4	(s) 0.1	(s)	191.2	R 612.7	R 338.5 R 376.2	R 988 9
1995 2000	4.8	238.5 377.7	91.4 88.0	4.5 6.2	4.1 5.4	1.1 1.1	85.2 59.3	186.3 159.9	(s) (s)	10.6 18.1	0.1 0.2	(s) (s)	213.3 240.3	653.4 798.3	R 378.7 R 459.7	R 1,032.0 R 1,256.9
2005	2.3 3.7	283.0	105.2	4.3	4.3	1.2	63.3	178.3	(e)	10.7	0.5	(s)	262.1	738.3	R 458.7 R 497.2	R 1,235.5
2006	3.2	265.7	90.5	4.4 4.9	2.0	1.5 1.4	49.9	148.3 147.0	R (S)	10.1	0.5	R (s) R (s)	259.4	687.3 B 700.5	R 457.0 R 431.8	R 1,144.3 R 1,138.3
2007 2008	3.0 1.7	291.9 296.4	84.5 77.7	4.9 6.3	1.4 0.7	1.4	54.8 48.3	134.1	(S)	10.5 10.9	0.6 0.6	R (s)	253.6 264.1	R 706.5 708.0	H //32 1	R 1 140 1
2009	0.6	286.8	69.7	6.6	1.0	1.1	53.9	132.2	(s)	5.1	0.7	R (s)	257.1	R 682.5	R 412.2 R 435.7	H 1.094.7
2010 2011	0.1 0.1	294.1 298.9	58.0 59.5	6.6 6.9	0.9 1.0	0.9 0.9	49.3 44.6	115.7 112.9	R (S)	5.0 4.7	0.8 0.6	R 0.1 R 0.1	263.7 260.7	R 679.5 R 678.0	R 399 0	R 1,115.1 R 1,077.0
2012	0.0	278.9	49.6	6.0	0.3	0.9	26.6	83.4	(s)	7.1	0.8	R 0.3	259.4	R 630 0	R 399.0 R 377.0	R 1 007 0
2013 2014	0.0 0.0	311.2 330.9	53.2 48.6	6.5 6.8	0.2 0.3	1.0 1.0	19.7 5.3	80.5 62.0	R (s)	7.5 7.6	0.8 0.8	R 0.4 R 0.6	260.5 261.2	R 660.9 R 663.0	R 379.2 R 376.0	R 1,040.1 R 1,039.0
2015	0.0	321.4	55.5	7.3	0.2	15.7	2.0	80.6	(S) (S)	10.2	0.8	R 0.9	262.7	<sup>R</sup> 676.6	R 370 6	H 1,047.1
2016	0.0	312.2	46.6	7.9	0.3	15.6	2.0	72.4	(s) R (s)	10.1	0.8	H11	261.0	H 657.5	R 362.5 R 344.8 R 356.7	H 1 020 0
2017 2018	0.0 0.0	320.4 341.0	45.7 46.7	7.8 8.1	0.2 0.2	15.5 15.5	1.8 1.0	70.9 71.6	R (s)	R 10.2 10.2	0.8 0.8	R 1.5 R 2.1	257.0 261.9	R 660.9 R 687.5	R 356.7	R 1,005.7 R 1,044.2
2019	0.0	333.2	48.2	8.4	0.4	15.6	0.7	73.4	R (S)	9.6	0.8	Rao	256.2	H 675 0	R 337.7 R 300.8	H 1 013 6
2020 2021	0.0 0.0	298.6 307.4	37.1 48.7	9.5 10.5	0.3 0.2	15.7 15.9	0.6 1.2	63.1 76.5	R (s)	9.5 R 9.8	0.8 0.8	R 3.9 R 5.0	235.4 238.6	R 611.4 R 638.1	н 300.8 R 299.9	R 938.0
2022	0.0	313.6	48.7	10.2	0.2	19.3	1.2	79.6	(s)	19.5	0.8	6.6	246.4	666.2	303.5	969.8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, New York

					Petro	leum			Headar	Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>C</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels	·		Million kWh	Wood and waste <sup>f,g</sup>	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	11,947	72 93	12,930	325 485	3,369	22,444	9,888	48,956	341				NA	14,428			
1965	13,811	93	16,909		3,708	29,213	13,497	63,813	275				NA				
1970 1975	12,125 6,125	116 105	16,810 15,761	1,125 1,442	3,281 1,351	33,696 23,039	12,744 13,662	67,657 55,256	269 188				NA NA				
1980	5,699	114	9,339	2,598	1,535	14,815	12,192	40,480	233	==	==	==	NA NA			==	
1985	3,723	101	5,378	980	1,224	5.553	12,514	25,648	233				NA	28,659			
1990	3,199	102	4,073	657	1,145	4,684	10,972	21,531	129				(s)	31,929			
1995	2,791	215	3,071	881	1,126	1,990	10,947	18,014	94				(s)	25,317			
2000 2005	2,747 1,510	97 81	3,285 3,371	2,308 2.417	931 2,214	2,005 1,337	11,243 14,482	19,773 23,820	87 59				(s)	25,838 19,947			
2005	1,422	78	3,463	1.754	2,426	1,301	14,462	22,948	87				(s)	14,976			
2007	1,313	78	3,625	1,243	2,164	1,461	12,398	20,890	58				(s)	20,213			
2008	1,313 1,205	81	3,409	753	1,691	1,247	12,438	19,538	69				(s)	14,685			
2009	902	73	2,931	583	1,635	485	12,166	17,798	121				(s)	13,417			
2010	979	76	2,274	611	2,336	514	9,810	15,545	58				(s)	13,480			
2011 2012	1,008	76 75	2,809	718	1,564 2,267	1,244 578	9,231 9,161	15,566 15,411	75 61				1 2	13,420			
2012	909 816	75 80	2,502 2,274	903 875	2,266	711	8,686	14,812	61 62				3	13,705 17,911			
2014	714	85	2,001	950	2,094	552	8.569	14.165	69				5	18.003			
2015	723	83	2,031	817	2,718	431	0 123	15 120	62				10	18,079			
2016	521	81	1,872	868	2,726	457	R 9,804	R 15,727	57				13	17,709			
2017	496	83	1,904	608	2,773	539	R 8,948 R 8,760	R 14,771 R 14,598	70				14	17,811			
2018 2019	364 349	92 91	1,953 2,544	665 647	2,814 2,829	406 360	R 8,537	R 14,598	59 59				17 23				
2020	158	87	2,330	760		194	R 8,219	H 14 362	57				24	16,610			
2021	211	90	2,039	973	2,859	444	R 8,844	R 15,159	64				24	16,891			
2022	241	89	2,061	1,164	2,950	455	7,616	14,246	40				28	16,178			
									Trillion Bt	u							
1960	311.9	74.2	75.3	1.2	17.7	141.1	62.3	297.7	R 1.2		NA	NA	NA		R 767.0	_R 99.3	_ R 866.3
1965	360.1	95.3	98.5	1.8		183.7	83.3	386.8	R 0.9	36.3	NA	NA	NA	78.8	H 958.2	H 155 0	R 1,113.3
1970 1975	308.4 155.5	118.0 106.2	97.9	4.1 5.1	17.2	211.8 144.8	78.3 83.9	409.4 332.7	R 0.9 R 0.6	40.3 37.7	NA NA	NA NA	NA NA		R 969.7 R 725.8	R 189.8 R 189.8	R 1,159.4 R 915.6
1975	146.5	116.4	91.8 54.4	9.2	7.1 8.1	93.1	74.8	239.5	R 0.8	37.7 48.4	NA NA	NA NA	NA NA	109.6	725.8 R 660.7	R 233.1	R 893.7
1985	94.8	103.6	31.3	3.4		34.9	78.5	154.5	Ros	56.7	0.0	NA.	NA NA	97.8	R 660.7 R 507.9	R 198 7	H 706.6
1990	82.6	105.1	23.7	2.3	6.0	29.5	68.7	130.2	R∩⊿	26.6	0.0	0.0	(s)	108.9	H 453.8	R 214.4	R 668.2 R 663.4
1995	72.4	221.2	17.9	3.0	5.9	12.5	69.7	109.0	R 0.3	20.9	0.0	0.0	(s)	86.4	R 510.0	R 153.4	R 663.4
2000	73.5	100.2	19.1	7.9	4.8	12.6	70.8	115.2 137.1	R 0.3 R 0.2	32.1	0.0	0.0	(s)	88.2	R 409.5	R 168.3	R 577.7
2005 2006	39.9 37.1	83.6 80.2	19.6 20.1	7.9 8.3 6.0	11.5 12.6	8.4 8.2	89.3 86.1	137.1	R 0.3	16.9 16.6	0.0 0.0	0.0 0.0	(S)	68.1 51.1	R 345.8 R 318.2	R 129.1 R 90.0	R 474.9 R 408.3
2006	34.6	79.8	21.0	4.2	11.1	9.2	76.2	121.7	R 0.2	16.0	0.0	0.0	(s)	69.0	R 321.5	R 117.4	R 439.0
2008	31.6	82.4	19.7	4.2 2.5	8.6	7.8	76.3	115.0	R <sub>02</sub>	13.6	4.8	0.0	(s)	50.1	R 297.8	R 82 0	R 379 8
2009	23.6 25.4	74.8	16.9	1.9 2.3 2.8	8.3	3.0	75.6	105.8	H 0.4	13.0	2.7 5.7	0.0	(s)	45.8	H 266.1	R 73.4	R 339.5
2010	25.4	77.8	13.1	2.3	11.8	3.2	62.1 58.5	92.7	R 0.2	17.9	5.7	0.0	(s)	46.0	R 265.7	R 76.0	H 341.7
2011	25.9	77.7	16.2	2.8	7.9	7.8	58.5	93.2	R 0.3 R 0.2	24.4	7.0	0.0	(s)	45.8	R 274.1	R 70.1	R 344.2
2012 2013	24.2 21.6	77.0 82.9	14.4 13.1	3.5 3.4	11.5 11.5	3.6 4.5	57.5 55.0	90.5 87.4	R 0.2	24.4 23.0	7.0 8.5	0.0 0.0	(s) (s)	46.8 61.1	R 270.0 R 284.6	R 68.0 R 89.0	R 337.9 R 373.6
2013	18.7	87.4	11.5	3.6	10.6	3.5	54.5	83.7	Rno	23.6	7.8	0.0	(s)	61.4	R 282.9	R 88.4	R 371.4
2015	19.3	86.1	11.7	3.1	13.7	2.7	57.7	89.0	H02	23.9	7.0	0.0	R (S)	61.7	R 288.0	R 87.0	R 375.0
2016	14.0	83.6	10.8	3.1 3.3	13.8	2.9	61.7	92 4	H n o	2/1	7.7 8.5	0.0	R (s) R (s)	60.4	R 288.0 R 283.4	R 87.0 R 83.9	R 375.0 R 367.3
2017	13.3	85.7	11.0	2.3 2.6	14.0	3.4	R 56.6	R 87.3	R 0.2	24.8	8.2	0.0	R (s) R 0.1	60.8	H 280 3	H 81.5	H 361.8
2018	9.7	94.6	11.2	2.6	14.2	2.6	n 55 2	R 85.8	H02	24 0	7.4	0.0	H 0.1	61.7	R 283.4	R 84.0	R 367.4
2019	8.9 4.0	93.4	14.7	2.5	14.3 14.4	2.3	R 53.9	R 87.6 R 84.2	R 0.2 R 0.2	23.7	7.8	0.0	R 0.1 R 0.1	59.9	R 281.6	R 78.9	R 360.5
2020 2021	4.0 5.4	89.5 92.8	13.4 11.8	2.9 3.7	14.4 14.4	1.2 2.8	R 52.2 R 56.5	R 89.2	R 0.2	22.5 22.6	3.9 3.0	0.0 0.0	R 0.1	56.7 57.6	R 261.0 R 270.9	R 72.4 R 72.5	R 333.4 R 343.4
2022	6.1	91.6	11.9	4.5	14.9	2.9	49.0	83.1	0.1	22.3	3.0	0.0	0.1	55.2	261.5	68.0	329.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: · Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. · The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

: -							Pe	etroleum							
/		Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Y	ear/	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
196 196 197	60 65	205 45 19	2 3	13,729 2,427 249	8,758 8,800 10,653	18 38 107	9,411 23,620	1,368 1,122	91,701 104,690	17,060 16,158	142,046 156,856 195,396	2,045 2,144 2,366	 	 	 
197 197 198	75	19 1 0	3 3 4	274 320	10,653 10,488 10,309	107 125 79	38,338 37,252 35,916	1,196 950 1,064	126,403 130,948 124,853	18,450 8,862 11,344	195,396 188,899 183,885	2,366 2,057 2,146	  	 	 
198 199 199	85 90	0 0	4 5	221 78 76	13,744 21,700 21,316	147 150 138	3,856 5,447 7,697	968 1,089 1,039	133,195 136,834 131,294	884 1,358 2,318	153,015 166,656 163,878	2,442 2,795 2,757	 	 	 
200 200	00 05	0	8 13	75 275	23,044 28,545	234 75	9,516 20.016	1,110 937	131,698 134,906	8,126 5,684	173,804 190,437	2,753 2,846			
200 200 200	07 08	0 0 0	14 16 16	25 185 154	29,388 29,146 27,485	99 56 257	20,341 19,977 21,658	913 942 875	137,309 136,714 134,206	6,530 7,063 10,336	194,606 194,083 194,971	2,806 3,397 2,918	 	 	 
200 201 201	10	0 0 0	15 19 23 21	154 30 40 43 41	27,670 28,245 28,534	97 29 27 28	16,760 40,612 40,836	787 966 860 785	134,075 135,571 128,969	10,336 11,743 12,094 5,158 4,988	194,971 191,161 217,556 204,426 200,011	3,025 2,922 2,981	  	 	 
201 201 201	12 13 14	0 0 0	21 20 33	41 37 68	28,534 27,591 26,395 28,052	28 38 41	40,836 41,117 43,669 44,771	785 822 912	128,969 125,461 125,006 129,656	4,988 6,300 7,770	202,266 211,270	2,981 2,748 2,864 2,853			
201 201 201	15 16	0	35 28 26	74 73 78	29,331 31,420 31,659	51 59 131	47,059 49,823 51,669	919 R 888 R 815	124,089 128,992 130,571	4,897 4,965 3,736	206,419 R 216,221 R 218,660	2,816 2,756 2,767	 	 	 
20° 20°	18 19	0	27 31	82 87	33,748 31,501	71 68	50,139 50,730	R 795 R 725 R 618	131,879 129,955	3,296 1,431	R 220,010 R 214,497	2,954 2,820			
202 202 202	21	0	28 37 42	74 80 83	29,277 R 32,888 36,967	47 41 72	23,669 30,745 42,323	R 693 760	106,703 118,176 115,201	1,919 2,893 2,965	R 162,307 R 186,566 199,517	2,550 2,455 2,600	 	  	 
								Tri	Ilion Btu						
196 196 197 197	65 70	5.3 1.2 0.5	2.4 3.4 3.2 3.0	69.3 12.3 1.3	51.0 51.3 62.1 61.1	0.1 0.1 0.4 0.5	52.6 133.2 216.7	8.3 6.8 7.3 5.8	481.7 549.9 664.0 687.9	107.3 101.6 116.0	770.3 855.2 1,067.7 1,023.0	7.0 7.3 8.1	784.9 867.1 1,079.5	R 14.1 R 14.4 R 16.5	R 799.0 R 881.5 R 1,096.0
198 198 199	80 85 90	(s) 0.0 0.0 0.0 0.0	3.6 3.6 4.9	1.4 1.6 1.1 0.4	60.1 80.1 126.4 124.1	0.3 0.6 0.6	210.7 203.2 21.4 30.4 43.6	6.5 5.9 6.6	655.9 699.7 718.8	55.7 71.3 5.6 8.5	998.8 814.2	7.0 7.3 8.3 9.5	1,033.0 1,009.7 826.2 906.1	R 16.5 R 14.3 R 15.6 R 16.9 R 18.8 R 16.7 R 17.9	R 1,096.0 R 1,047.3 R 1,025.3 R 843.1 R 924.9
199 200 200 200	00 05	0.0 0.0 0.0 0.0	8.6 8.5 13.1 14.5	0.4 0.4 1.4 0.1	124.1 134.1 166.1 170.5	0.5 0.9 0.3 0.4	43.6 54.0 113.5 115.3	6.3 6.7 5.7 5.5	683.3 685.0 700.4 711.9	14.6 51.1 35.7 41.1	891.7 872.7 932.1 1,023.1 1,044.9	9.4 9.4 9.7 9.6	890.7 950.0 1,046.6 1,070.9	H 16.7 H 17.9 H 18.4 H 16.9	R 907.4 R 968.0 R 1,065.0 R 1,087.8
200 200 200	07 08 09	0.0 0.0 0.0	16.0 16.3 15.8	0.9 0.8 0.2 0.2	168.6 158.9 159.8	0.2 1.0 0.4	113.3 122.8 95.0	5.7 5.3 4.8	703.0 685.3 682.4	44.4 65.0 73.8	1,036.1 1,039.0 1,016.4 1,162.5	11.6 10.0 10.3	1,066.2 1,067.5 1.042.6	R 19.7 R 16.3 R 16.5	R 1,087.6 R 1,083.8 R 1,059.1 R 1,208.1 R 1,136.2
20° 20° 20° 20°	11 12	0.0 0.0 0.0 0.0	19.2 23.3 22.2 20.8	0.2 0.2 0.2 0.2	163.1 164.6 159.1 152.1	0.1 0.1 0.1 0.1	230.3 231.5 233.1 247.6	5.9 5.2 4.8 5.0	686.9 653.0 635.1 632.5	76.0 32.4 31.4 39.6	1,162.5 1,087.1 1,063.8 1,077.2	10.0 10.2 9.4 9.8	1,191.6 1,120.6 1,095.3 1,107.8	R 19.7 R 16.3 R 16.5 R 16.5 R 15.6 R 13.6 R 14.2 R 14.0 R 13.6 R 13.1 R 12.7 R 13.7	1,108.9 B 1 100.0
20° 20° 20°	14 15 16	0.0 0.0 0.0	34.5 36.2 28.6	0.3 0.4 0.4	161.7 169.0 180.9	0.2 0.2 0.2	253.9 266.8 282.5	5.5 5.6 5.4 R 4.9	655.9 627.5 652.1	48.8 30.8 31.2	1,126.3 1,100.3 R 1,152.6	9.7 9.6 9.4	1,170.5 1,146.1 1.190.7	R 14.0 R 13.6 R 13.1	R 1,184.5 R 1,184.5 R 1,159.7 R 1,203.7 R 1,213.2 R 1,223.5
20° 20° 20° 20°	17 18	0.0 0.0 0.0	26.7 28.3 31.8	0.4 0.4 0.4 0.4	182.3 194.4 181.4 168.5	0.5 0.3 0.3 0.2	293.0 284.3 287.6	R 4.9 4.8 4.4 3.7	659.8 666.5 656.5 539.1	23.5 20.7 9.0 12.1	1,164.3 1,171.4 1,139.7 R 858.2	9.4 10.1 9.6 8.7	1,200.5 1,209.8 1,181.1	R 12.7 R 13.7 R 12.7	R 1,213.2 R 1,223.5 R 1,193.8 R 906.5
202 202 202	21	0.0 0.0 0.0	28.5 37.9 43.4	0.4 0.4 0.4	168.5 R 189.6 213.1	0.2 0.2 0.3	134.2 174.3 240.0	3.7 R 4.2 4.6	539.1 596.8 581.6	12.1 18.2 18.6	R´858.2 R 989.3 1,064.8	8.7 8.4 8.9	895.4 R 1,035.5 1,117.1	R 11.1 R 10.5 10.9	R <sup>'</sup> 906.5 R 1,046.0 1,128.1

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, New York

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
960	12,302	58 74 106	540	0	9,851	10,391	0	11,746		0	NA	NA	3,623	
965 970	13,591 11,125	74	1,174 3,139	Ŏ	21,410 56,787	22,584 59,927		19,301 24,781		Ŏ		NA	495 944	
970	11.125	106	3,139	Ö	56,787	59,927	727 4,273	24,781		Ö	NA NA	NA	944	
75 80 85 90 95 00 05 06	6,124 6,446 7,787	14	5,319 749 821	0	84,338 63,898 43,220	89,658 64,647	13 111	28,135 26,241 26,956		0	NA	NA	1,632 7,167	
80	6,446	124 173	749	0	63,898	64,647	19,276 24,092	26,241		0	NA	NA	7,167	
85	7,787	173	821	0	43,220	44.041	24,092	26,956		0	0	0	17.287	
90	10,125 8,774 9,763 9,069 9,417	229	1,095 1,627	0	53,800 12,264	54,895 13,891	23,623 26,336	28,052 25,895		0	0	0	712 8,899	
95	8.774	431	1.627	Ó	12,264	13,891	26,336	25.895		Ó	Ó	Ó	8.899	
00	9.763	373	2.352	267	22.789	25,409 38,894	31,508	24,819 25,720 27,252		0	0	10	8 664	
05	9.069	304	1.574	2.256	35,064	38.894	42.443	25.720		Ö	Ō	10 103	7,281 9,986	
06	9 417	388	622	860	9 754	11,236	42,224	27 252		Ō	Ō	655	9,986	
07		229 431 373 304 388 408	1.372	496	11 729	13.596	42,453	25.191		Ŏ	ŏ	833	11.288	
08 09 10 11	8.885	399	809	363	4.935	6,106	43,209	26 655		Ô	n	655 833 1,251	13.316	
09	8,885 6,108 6,384 4,591 2,228	399 368 425 434 499 456 453 472 472 385 415 379 423 R 447	2,352 1,574 622 1,372 809 736 637 331 392 503 833 835 344 264	2,256 860 496 363 299 913	4,935 3,261 1,790 1,026 459	4 296	43 485	27,490 25,411 27,917		0	ñ	2 266	9,796 7,030 10,452 16,529	
10	6.384	425	637	913	1 790	4,296 3,340	43,485 41,870	25 411		Õ	ñ	2,596 2,828 2,988 3,536 3,966	7,030	
11	4 591	131	331	469	1,700	1 826	42 695	27 917		0	6	2 828	10.452	
12	2 228	100	302	469 0	1,020	1,826 851	42,695 40,775	24,588		Ď	53	2,020	16 520	
13	2,220	456	502	0	882	1 385	44,756	24,906		0	67	3 536	17 995	
13 14	2,223	450	203	Ŏ	882 2,228	1,385 3,061	44,756 43,039	24,906 26,016		0	67 71	3,000	17,995 16,104	
5	1,000	470	000	0	1,942	2,778	44,603	25,948		0	98	3,974	17,296	
0	2,225 2,154 1,038 654 242	472	000	0	1,942	2,770	41,571	20,940		0	107	2,974	17,290	
6 7	034	4/2	344	0	624 642	968 905	42,167	26,827 30,069		0	137 178	3,939 4,131	17,946 16,449	
/	242	303	204	0	1 042	905	42,167 42.919	30,069		0	1/0	4,131	10,449	
8	272 187	415	790	0	1,616 361	2,405 742	42,919 44,865	29,565 30,555		0	294 507	3,989 4,452	15,554 14,400	
19	107	3/9	790 382 180	0	301	742	44,000	30,555		0	507	4,452	14,400	
20	64	423	180	0	212	392	38,430	29,487		0	822	4,516	13,991	
21 22	0	11447	208 1,058	0	845 1,634	1,054 2,692	31,177 26,812	28,694 27,386		0	1,143 1,765	4,151 4,563	13,731 12,208	
22	0	4/5	1,058	0	1,634	2,692	26,812	27,386		0	1,765	4,563	12,208	
							Trillion Btu							
60	326.1	59.8	3.1	0.0	61.9 134.6	65.1	0.0	R 40.1	0.0	0.0	NA	NA	12.4 1.7 3.2 5.6 24.5 59.0	R 56 R 66 R 1,00 R 1,00 R 1,21 R 1,22 R 1,32 R 1,32 R 1,32 R 1,41 R 1,11 R 1,11 R 1,11 R 1,11 R 1,10 R 1,00 R 1,00
65	362.6	76.1	6.8	0.0	134.6	141.4	8.6	R 65.9 R 84.6 R 96.0 R 99.5 R 92.0 R 95.7 R 88.4 R 84.7 R 87.8	0.0	0.0	NA	NA	1.7	H 6
70 75 80 85 90 95 00 05 06 07	274.4	108.4	18.3	0.0	357.0 530.2	375.3	46.9	H 84.6	0.0	0.0	NA	NA	3.2	H 8
75	274.4 147.3 158.8 196.2	108.4 14.0 128.9 178.7	30.8 4.4 4.8	0.0	530.2	561.0	144.4	H 96.0	0.0	0.0	NA	NA	5.6	_ H 9
30	158.8	128.9	4.4	0.0	401.7	406.1 276.5	210.3 255.9	R 89.5	0.1	0.0 0.0	NA	NA	24.5	R 1,0
35	196.2	178.7	4.8	0.0	271.7	276.5	255.9	H 92.0	(s)	0.0	0.0	0.0	59.0	H 1,0
90	260.4 227.4	236.8 440.4	6.4 9.5	0.0 0.0	338.2 77.1	344.6 86.6	250.0 276.7	R 95.7	28.4 38.7	0.0 0.0	0.0	0.0	2.4 30.4	R 1,2
95	227.4	440.4	9.5	0.0	77.1	86.6	276.7	H 88.4	38.7	0.0	0.0	_0.0	30.4	R 1,1
00	254.8 213.0 215.8	380.1 310.6 395.5	13.7 9.2 3.6	1.6	143.3 220.4 61.3	158.6 242.5 69.9	328 6	R 84.7	41 4	0.0	0.0	R (s)	29.6 24.8 34.1	R 1,2
05	213.0	310.6	9.2	12.9 4.9	220.4	242.5	442.9 440.6	R 87.8	27.3 27.8	0.0 0.0	0.0	R 0.4	24.8	R 1.3
06	215.8	395.5	3.6	4.9	61.3	69.9	440.6	R 93.0	27.8	0.0	0.0	R 2.2	34.1	R 1.2
07	220.6 195.6	416.9	7.9	2.8	73.7 31.0	84.5 37.8	445.3	R 86.0	27.5 29.6	0.0	0.0	R 2.8	38.5	R 1.3
08	195.6	407.3	4.7	2.1	31.0	37.8	451.6	R 90.9	29.6	0.0	0.0 0.0	R 4.3	45.4	R 1.2
)9  0	131.8 141.6 99.2	416.9 407.3 375.6 433.7 443.6	7.9 4.7 4.3 3.7 1.9	2.8 2.1 1.7 5.2	20.5	26.5	454.8	R 86.0 R 90.9 R 93.8	31.5	0.0	0.0	R (s) R 0.4 R 2.2 R 2.8 R 4.3 R 7.7	38.5 45.4 33.4 24.0 35.7 56.4 61.4 54.9 59.0	R 1.1
0	141.6	433.7	3.7	5.2	11.3 6.4	20.2	437.6	R 86.7	31.5 31.2	0.0	0.0 R (s) R 0.2 R 0.2 R 0.2 R 0.2	R 8.9	24.0	R 1.1
1	99.2	443.6	1.9	2.7	6.4	11.0	446.8	R 95.3	29.0	0.0	R (s)	R 9.6	35.7	R 1.1
2 3 4	48.7	513.6	2.3	0.0	2.9	5.1	427.3	R 83.9	26.7	0.0	R 0.2	R 10.2	56.4	R 1.1
3	48.7 47.2 45.9 22.0	513.6 469.5 466.0 486.0	2.3 2.9 4.8 4.8	0.0	2.9 5.5	5.1 8.4	467.7	R 85.0	26.7 29.7	0.0	R 0.2	R 12.1	61.4	R 1.1
4	45 9	466.0	4.8	0.0	14.0	18.8	450.1	R 88 8	32.3	0.0	R 0.2	R 13.5	54.9	R 1 1
15	22.0	486 N	4.8	0.0	12.2	17.0	466.5	R 88.5	29.8	0.0	R 0.3	R 13.6	59.0	R 1 1
16	15.6	486.5	2.0	0.0	3.9	17.0 5.9	434.8	R 91 5	31.0	0.0	nns	R 13.4	61.2	R 1 1
17	63	397.4	1.5	0.0	4.0	5.6	441.0	R 102 6	32.1	0.0	B 0.6	R 14 1	56.1	R 1 0
18	6.3 7.0 4.8	428 1	4.5	0.0	10.2	14.7	448.7	R 100 a	30.1	0.0	H 1 0	R 13.6	53.1	R 1,0
18 19	7.U A Q	428.1 390.4	7.0	0.0	10.2 2.3	17.7	468.5	R 104.3	30.1 27.3	0.0	R 1 7	R 15.0	/Q 1	R 1,0
20	1.6	136.4 136.9	1.5 4.5 2.2 1.0	0.0	1.3	14.7 4.5 2.4	401.4	R 104.3	27.3	0.0	R 1.7 R 2.8	R 15.2	56.1 53.1 49.1 47.7	R 1,0
21	0.0	436.8 R 461.6 490.5	1.0	0.0	1.3 5.3 10.3	6.5	R 225 1	R 86.7 R 95.3 R 83.9 R 85.0 R 88.8 R 91.5 R 102.6 R 100.6 R 100.6 R 100.9 R 104.3 R 100.6 R 97.9	26.1	0.0	R 2.0	R 8.9 R 9.6 R 10.2 R 12.1 R 13.6 R 13.4 R 14.1 R 15.2 R 15.2 R 15.4 I 15.6	41.1	1,0. R o
21 22	0.0 0.0	··401.b	1.2	0.0 0.0	5.3 10.2	16.4	R 325.1 279.6	91.9	26.5 15.5	0.0	R 3.9 6.0	14.2	46.9 41.7	11 9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, North Carolina

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthoui	rs	Thousan	d barrels
1960	8,947	45	13,445	2,635	3,401	35,875	4 603	16,310	76,268	0	4,998	0	NA	NA
1965	12,707	45 76	17,182	4.188	3.649	43.144	4,603 4,723	17.629	90.515	0	5,385 4,374	0	NA	NA
1970	20,417	151	22,612	5,489	4,702	56,348	6,778	17,232	113,161	0	4,374	0	NA	NA
1971 1972	20,391 20,653	161 164	21,583 23,065	5,372 5,916	4,740 4,144	58,679 63,390	10,409 15,870	17,243 16,322	118,026	0	5,917 6,438	0	NA NA	NA NA
1973	21.856	161	25.157	6 050	3.914	65,888	15.892	15,187	128,706 132,089	0	7.113	0	NA NA	NA
1974	21,943	140	22,703	5,834 6,445	3,907	66,364	13,699	12,564	125,071 117,572	Ö	6,890 7,055	ő	NA	NA
1975	20,055	115	21,259	6,445	3,809	66,935	7,779	11,347	117,572	1,405	7,055	0	NA	NA
1976 1977	22,625 22,985	101 73	24,212 27,276	7,022 6,360	3,715 4,087	70,030 72,296	12,790 14,685	11,959 13,136	129,729 137,840 136,933 135,150 121,836	2,511 5,664	5,652 5,287	0	NA NA	NA NA
1978	20.816	82	24.634	7,706	4.338	75.198	12.355	12.702	136,933	9,917	5.482	0	NA NA	NA NA
1979	20,816 22,949	131	24,634 29,434	7,873	4,332	71,154	11,997	10,360	135,150	6,809	5,482 7,917	Ö	NA	NA
1980	25,466	153	24 116	7,979	5,209	66,222	9,058	9,251	121,836	5,775	5 486	0	NA	NA
1981 1982	26,816 25,356	152 142	21,225 20,179	7,533 6,943	5,319 5,747	66,515 65,854	5,621 5,756	7,683 7,280	113,897 111,758 118,354 129,851	6,246 9,126	2,930 5,408	0	37 18	NA NA
1983	23,918	137	24.644	6.981	6.404	67 201	5 802	7 322	118.354	12.363	6.142	0	7	NA NA
1984	22,417	144	24,644 27,052	6,981 6,797	6,413	69.921	7,906	11,762	129,851	12,363 20,232	6,142 6,369	Ö	76	NA
1985	22,052	134	26,290 28,785	7,546 7,289	6,668	70,856 74,004	6,233	10,971	128,563	19,303	4,094 2,521	0	228	NA
1986 1987	23,242 19,965	136 149	28,785 30,349	7,289 8,791	7,123 7,749	74,004 76,719	6,338 6,281	11,186 10,977	128,563 134,726 140,865	20,286 28,600	2,521 5 101	0	0	NA NA
1988	20,506	152	33,469	7,863	8,318	78,933	6,119	12,599	147,301	29,146	5,101 2,893	0	0	NA NA
1989	23.565	162	27.768	9.308	7.689	78,933 77,874	5.465	10.280	138.386	29.212	6.996	Ö	Ō	NA
1990	22,590 22,585	162 167	26,189 25,308	8,892 10,308	5,567 4,384	77,525 77,046	5,857 6,073	8,962 8,720	132,992 131,838	25,905 30,312	6,819 5,850	0	0	NA
1991 1992	22,585 25,921	167 181	25,308 26,826	10,308 11,092	4,384 4,684	77,046 77,196	6,073 7,446	8,720 9,550	131,838	30,312	5,850	0	121 78	NA NA
1993	27,527	186	26,643	11,870	4,897	81.432	7,446 7,985	9,563	136,793 142,389	22,754 23,759	5,768 4,987	0	78 78	NA NA
1994	25.338	189	28 939	12,331 12,137	4 359	81,432 83,445	6.299	9.214	144 587	32 346	7 192	Ö	298	NA
1995	26,434	205	31,396 32,589	12,137	4,947 9,127	86,421	6,263	11,336	152,500 160,564	35,910 33,718	5,521 5,952	0	28	NA
1996 1997	29,813 30,859	214 216	32,589	13,917 15,789	9,127 7,156	88,147 90,933	6,832 5,999	9,953 10,086	160,564 162,686	33,718 32,453	5,952	0	790 798	NA NA
1998	30,319	214	32,724 33,296	13,100	6,761	94,177	4,884	11.685	163,902	38,778	5,626 5,738	0	975	NA NA
1999	29.738	217	31,371 36,210	11.858	6.802	97,421	4.364	10,964 10,720	162,781 171,111	37.524	3,684 3,138	Ö	836	NA
2000	31,371	234	36,210	14,101	7,277	97,833	4,969	10,720	171,111	39,127	3,138	0	945	NA
2001 2002	30,481 31,208	207 235	36,595 34,084	13,847	6,051 4,825	98,717 100,642	3,623 3,972	11,435 9,930	170,268	37,775 39,627	2,596	0	1,303 1,602	1 2
2002	31,124	219	35,766	12,562 11,945	5,246	102,618	4,904	9 778	166,015 170,257	40,907	3,492 7,201	0	2 103	1
2004 2005	31,723 32,860	225 230	36,644 36,441	12,122 13,192	5,397 7,366	105,414 105,796	5.910	10,341 9,966	175,828 178,329	40,091 39,982	5,435 5,397	Ö	2,253 620	3
2005	32,860	230	36,441	13,192	7,366	105,796	5,568	9,966	178,329	39,982	5,397	0	620	10
2006 2007	31,797 33,606	223 237	35,689 35,483	13,062 12,074	5,323 7,161	106,440 107,871	4,223 3,756	9,170 9,011	173,907 175,357	39,963 40,045	3,839 2,984	0	886 1,301	29 39 34 36 29 98 81
2008	32.432	243	30.586	13 201	5 225	114.153	3.618	7.408	174.191	39 776	3.034	0	7.011	34
2009	27,502	247	31,088 32,015	12,225 12,737	1,854 12,443	114,153 106,647 107,268	2,779	5,722	160.315	40,848 40,740	3,034 5,171	Ō	9,015	36
2010	30,529	304	32,015	12,737	12,443	107,268	2,139	7,537	174.139	40,740	4.757	0	9,338	29
2011 2012	25,518 21,662	308 364	30,995 28,839	11,324 9,665	12,502 12,874	103,528 101,518	1,211 458	6,505 7,166	166,063 160,520	40,527 39,386	3,893 3,728	0	9,345 9,622	98
2013	19.967	440	30,291	8 713	13 797	103,511	199	6.570	160,520 163,082 167,227 171,757 R 176,119 R 177,456 R 181,524 R 181,524	40 242	6,901	0	9 941	405
2014	19,967 20,282 16,364	453 499	30,291 32,202 33,234	10,339 9,373	14,365 14,338	103,511 103,443 108,294	170 85	6,708	167,227	40,967 42,097	6,901 4,756 4,742	ŏ	9,684 9,971	405 391 466
2015	16,364	499	33,234	9,373	14,338	108,294	85	6 432	171,757	42,097	4,742	0	9,971	466
2016 2017	15,447 14,020	522 503	33,103 33,010	7,920 8,018	14,858 15,741	112,222 112,095	79 111	R 7,937 R 8,480	11/6,119 R 177 456	42,786 42,374	4,417 3,818	6 471	10,582 10,849	832 877
2017	13.075	582	35,607	9.362	15,741	112,105	110	H o EOA	R 181.524	42,077	6,605	543	11.163	491
2019	12,771	552	35,011	8,671	16,417	112,105 114,578	98	R 7 071	R 181,846	41,916	6,605 6,186	543 523	11,357	385
2020	8,971	540	34,020	8,869	11,623	102.228	277	n 5.790	102.007	42,329	7.957	546	10,107	420
2021 2022	8,870 6,440	617 725	R 34,313 33,754	8,939 9,102	14,468 14,901	112,901 116,954	109 112	R 6,594 6,848	R 177,324 181,670	43,118 42,644	5,813 4,686	515 547	11,278 11,781	R 337 269
2022	0,440	120	33,734	9,102	14,901	110,904	112	0,040	101,070	42,044	4,000	547	11,/01	-

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

distillate fuel oil. Excludes biofuels product supplied.

Chydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, North Carolina (trillion Btu)

L					Fossi	l fuels						Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol
1960	231.3	47.0	78.3	10.1	18.2	188.4	28.9	94.9	418.9	697.3	47.0	78.3	188.
1965	325.9	78.2	100.1	16.0	19.7	226.6	29.7	102.5	494.6	898.7	78.2	100.1	226.
1970	491.4	154.9	131.7	20.7	25.7	296.0	42.6	101.5	618.3	1,264.5	154.9	131.7	296.
1971 1972	484.6 492.8	164.4 167.8	125.7 134.4	20.3 22.2	25.9 22.6	308.2	65.4 99.8	101.7	647.2 708.7	1,296.2	164.4	125.7 134.4	308.
1972	492.8 531.7	167.8 165.2	134.4	22.2 22.5	22.6	333.0 346.1	99.8	96.8 90.8	708.7 727.3	1,369.3	167.8 165.2	134.4	333. 346.
1974	531.7 522.8	165.2 143.7	146.5 132.2	21.6	21.3	348.6	86.1	75.2	685.1	1,424.3 1,351.7	165.2 143.7	146.5 132.2	348.
1975	476.5	116.9	123.8	23.6	20.8	351.6	48.9	67.5	636.3	1,229.7	116.9	123.8	351.
1976	544.5	103.0	141.0	25.7 23.1	20.3 22.4	367.9 379.8	80.4	71.0	706.4 754.9	1,353.9	103.0	141.0	367.
1977	548.1	73.9	158.9	23.1	22.4	379.8	92.3	78.3	754.9	1,376.9	73.9	158.9	379.
1978	499.9	83.7	143.5	27.9	23.8	395.0 373.8	77.7	75.8 62.5	743.7 735.7	1,327.3	83.7 133.8	143.5 171.5	395.
1979 1980	558.6 624.7	133.8	171.5	28.8	23.8	373.8	75.4 56.0	62.5	735.7 658.9	1,428.1	133.8	171.5	373.
1980 1981	655.3	155.1 154.3	140.5 123.6	29.2 27.4	28.7 29.4	347.9	56.9 35.3	55.7 46.0	611.2	1,438.7 1,420.8	155.2 154.3	140.5 123.6	347.: 240
1982	622.1	146.8	117.5	25.1	31.8	349.4 345.9	36.2	43.7	600.3	1,369.2	146.8	117.5	349. 345.
1983	595.0	141.0	143.6	25.4	35.6	353.0	36.5	44.8	638.8	1,374.9	141.1	143.6	353.
1984	558.9	148.7	157.6	24.9	35.5	367.3	49.7	70.6	705.5	1,413.2	148.7	157.6	367.
1985	550.5	138.3	153.1	27.5	37.0	372.2	39.2	65.8	694.8	1,383.6	138.4	153.1	372.
986	583.2	140.3	167.7	26.8	39.7	388.7	39.8	68.0	730.8	1,454.2	140.3	167.7	388.
987	500.9	153.3	176.8	32.4	43.2	403.0	39.5	66.5	761.4	1,415.6	153.3	176.8	403.
988	515.4	156.6 166.8	195.0 161.8	29.0 34.7	46.4 42.8	414.6	38.5 34.4	76.2 62.4	799.7 745.1	1,471.7 1,503.4	156.6	195.0 161.8	414.
989	591.4 568.3	166.7	152.6	34.7 32.7	30.8	409.1 407.2	34.4 36.8	55.3	745.1 715.5	1,450.5	166.8 166.7	152.6	409. 407.
991	567.4	172.8	147.4	37.8	24.3	404.7	38.2	53.6	705.9	1,446.2	172.8	147.4	404.
992	649.2	186.9	156.3	40.8	26.0	405.5	46.8	58.8	734.2	1,570.2	186.9	156.3	405.
993	689.4	192.5	155.2	43.4	27.2	424.6	50.2	59.1	759.7	1,641.7	186.9 192.5	155.2	424.
1994 1995	632.8 662.9	195.3 212.0	168.4	45.4	24.5	434.0	39.6 39.4	57.3	769.3	1,597.4	195.3	168.4	435.
995	662.9	212.0	182.7	44.7	28.0	449.6	39.4	70.9	815.3	1,690.2	212.0	182.7	449.
996	744.3 765.9	222.1 223.4	189.7	51.1 57.6	51.7	456.6 470.5	43.0	60.7	852.7 858.4	1,819.1	222.1 223.4	189.7	459. 473.
997 998	755.9 754.3	223.4 222.7	190.5 193.7	57.6 48.2	40.6 38.3	470.5 486.6	37.7 30.7	61.6 71.0	858.4 868.6	1,847.8 1,845.6	223.4 222.7	190.5 193.7	473. 490.
999	742 4	224.7	182.5	43.9	38.6	503.9	27.4	67.0	863.3	1,830.5	224.8	182.5	506.
2000	786.1	240.7	210.7	51.7	41.3	505.6	31.2	66.0	906.5	1,933.3	240.7	210.7	508.
2001	756.3	215.6	212.9	51.0	34.3	508.9	22.8	70.5	900.5	1.872.4	215.6	212.9	513.
002	770.9	243.1	198.3	46.4	27.4	517.7	25.0	61.6	876.3	1,890.4	243.1	198.3	523.
003	771.6	227.4	208.1	44.7	29.7	526.0	30.8	60.6	900.0	1,899.0	227.4	208.1	533.
004 005	782.7 811.9	232.2 237.5	213.2 212.0	45.4 48.9	30.6	539.9 547.1	37.2 35.0	64.7 62.2	931.0 947.1	1,945.9 1,996.5	232.2 237.5	213.2 212.0	547.
006	777.9	237.5	207.1	48.9	41.8 30.2	547.1 548.8	26.5	57.4	947.1	1,996.5	237.5	212.0 207.1	549. 551.
006 007	828.0	230.2 244.5	207.1	48.0 44.4	30.2 40.6	548.8 550.2	23.6	57.4 56.7	920.7	1,926.2	230.2 244.5	207.1 205.2	551. 554.
800	794.7	249.7	176.8	49.4	29.6	558.5	22.7	46.5	883.6	1.927.9	249.7	176.8	582.
009	678.7	252.7	178.0	45.3	10.5	511.6	17.5	35.9 47.3	798.8	1,730.2	252.7 308.7	179.6	542.
010	749.1	252.7 308.7	183.8	48.9	70.6	511.2	13.4	47.3	798.8 875.2	1,730.2 1,933.0	308.7	184.9	543.
011	624.8	311.2	176.1	43.5	70.9	491.8	7.6	40.9	830.7	1,766.7	311.2	1 <i>78.8</i>	524.
012	534.7	367.9	163.6	37.1	73.0	480.5	2.9	45.7	802.8	1,705.4	367.9	166.3	513.
013 014	493.8 501.6	445.0 462.3	169.4 180.4	33.5 39.7	78.2 81.4	489.3 489.7	1.3 1.1	41.1 41.9	812.7 834.3	1,751.5 1,798.2	445.0 462.3	174.6 185.6	523. 523.
014	405.5	516.0	186.1	36.0	81.3	513.0	0.5	40.1	857.0	1 770 6	516.0	191.5	523. 547.
016	381.8	540.3	183.2	30.4	84.2	530.5	0.5	50.1	879 N	R 1 801 1	540.3	190.6	567.
017	350.3	520.7	183.0	30.8	89.3	528.7	0.3	R 53 7	R 886 2	n 1 /5/ 1	520.7	190.0	566
018	325.1	599.3	198.4	36.0	89.7	527.7	0.7	H 5/1	H ans 5	H 1 830 0	599.3	205.1	566
019	318.2	569.4	195.3	33.3	93.1	539.3	0.6	H 44.4	H 906.1	H 1.793.6	569.4	201.6	578.
2020	223.9	557.6	189.0	34.1	65.9	481.3	1.7	<sup>H</sup> 36.1	H 202 2	H 1 589 6	557.6	195.8 R 107.8	516.
2021	222.5	637.6	R 194.9	34.3	82.0	530.9	0.7	41.2	R 883.0	R 1,743.0	637.6	137.0	<i>570.</i>
2022	163.0	747.2	191.8	35.0	84.5	549.5	0.7	42.8	903.4	1,813.6	747.2	194.6	590.

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, North Carolina (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 17.1	73.7	NA	NA	NA	NA	73.7	0.0	NA	NA	R 90.8	R 11.2	0.0	R 799.3
1965 1970	0.0 0.0	R 18.4 R 14.9	67.3 65.9	NA NA	NA NA	NA NA	NA NA	67.3 65.9	0.0 0.0	NA NA	NA NA	R 85.7 R 80.8	R 11.2 R - 19.6 R - 53.9 R - 53.9 R - 24.1 R - 5.1 R 19.8 R 19.8 R 19.8 R 49.4 R 38.0 R - 49.7 R - 20.9 R - 20.9 R 135.9 R 144.9 R 163.9 R 144.9 R 163.9 R 144.9 R 163.9 R 144.9 R 163.9 R 166.4 R 163.9 R 171.6 R 163.9 R 171.6 R 163.9 R 171.6 R 163.9 R 144.9 R 171.6 R 180.1 R 163.9 R 144.9 R 171.6 R 180.1 R 180.1 R 180.1 R 19.0 R 1	0.0 0.0	R 964.8 R 1,291.4
1971 1972	0.0	R 20.2 R 22.0	66.1 68.9	NA	NA	NA	NA	66.1 68.9	0.0	NA	NA NA	R 86.3 R 90.9 R 93.2	R -34.7	0.0	R 1,347.8 R 1,424.4 R 1,493.4 R 1,437.8
1972	0.0 0.0	H 22.0 R 24.3	68.9 68.9	NA NA	NA NA	NA NA	NA NA	68.9 68.9	0.0 0.0	NA NA	NA NA	H 90.9	H -35.9 R -24.1	0.0 0.0	H 1,424.4 R 1 403 4
1973 1974	0.0	R 24.3 R 23.5	67.7	NA	NA	NA	NA	67.7	0.0	NA	NA	n 91.2	R-5.1	0.0	R 1,437.8
1975	15.5	R 24.1 R 19.3 R 18.0	66.4	NA	NA	NA	NA	66.4	0.0	NA	NA	R 90.5 R 97.6	R 60.3	0.0	R 1,396.0 R 1,499.0 R 1,586.3 R 1,606.3 R 1,671.9
1976 1977	27.7 61.0	R 18.0	78.3 91.4	NA NA	NA NA	NA NA	NA NA	78.3 91.4	0.0 0.0	NA NA	NA NA	H 109.4	R 39.0	0.0 0.0	R 1,499.0
1978	108.5	H 18.7	102.4	NA	NA	NA	NA	102.4	0.0	NA	NA	R 121.1	R 49.4	0.0	R 1,606.3
1979	74.1 63.0	R 27.0 R 18.7	109.7	NA NA	NA NA	NA NA	NA NA	109.7	0.0 0.0	NA NA	NA NA	R 136.7 R 97.6	n 33.0 R a n	0.0 0.0	n 1,671.9 R 1 607 4
1980 1981	68.9	R 18.7 R 10.0	78.9 77.5	0.1	NA	NA	0.0	78.9 77.7	0.0	NA NA	NA	H 87.6	R -5.0	0.0	R 1,607.4 R 1,572.3
1982 1983	101.1 134.8	R 18.5	86.8 85.0 93.4 94.0	0.1	NA NA	NA NA	0.0 0.0	86.8 85.0	0.0 0.0	NA NA	NA 0.0	R 105.3 R 106.0	H -49.7	0.0 0.0	R 1,525.8 R 1,594.8 R 1,727.6 R 1,733.3
1984	219.4	R 21.0 R 21.7 R 14.0	93.4	(s) 0.3	NA	NA	0.0	93.7	0.0	0.0 0.0	0.0	R 115.4 R 108.8	R -20.4	0.0	R 1,727.6
1985	205.0	R 14.0	94.0	0.8	NA	NA	0.0	94.8	0.0	0.0	0.0	R 108.8	R 35.9	0.0	R 1,733.3
1986 1987	214.6 298.6	R 8.6 R 17.4 R 9.9	87.8 81.7	0.0 0.0	NA NA	NA NA	0.0 0.0	87.8 81.7	0.0 0.0	0.0 0.0	0.0 0.0	R 96.4 R 99.1	H 45.4 R 91.4	0.0 0.0	R 1,810.6 R 1,904.8
1988	309.0	R 9.9	85.4	0.0	NA	NA	0.0	85.4	0.0	0.0	0.0	H 95.3	R 115.1	0.0	H 1,991.1
1989 1990	309.2 274.1	R 23.9	94.4 97.5	0.0 0.0	NA NA	NA NA	0.0 0.0	94.4 97.5	0.1 0.1	0.2 0.2 0.2 0.2	0.0 0.0	R 118.5 R 121.1	H 66.4	0.0 0.0	H 1,997.5
1991	317.8	R 23.3 R 20.0	75.9	0.4	NA	NA NA	0.0	76.4	0.1	0.2	0.0	n 96 6	R 144.9	0.0	R 2,009.6
1992	238.3	H 10 7	99.7	0.3	NA	NA	0.0	100.0	0.1	0.2	0.0	H 120 0	R 171.6	0.0	H 1,997.5 R 2,009.6 R 2,005.5 R 2,100.1 R 2,194.5 R 2,189.1 R 2,318.9 R 2,400.1 R 2,334.0 R 2,433.5 R 2,433.5 R 2,433.5 R 2,587.7
1993 1994	249.6 338.1	R 17.0 R 24.5 R 18.8	105.6 112.3	0.3 1.0	NA NA	NA NA	0.0 0.0	105.8 113.3	0.2 0.1	0.2 0.2	0.0 0.0	R 123.2 R 138.2	<sup>n</sup> 180.1 R 115.5	0.0 0.0	R 2,194.5
1995	377.3	R 18.8	111.5	0.1	NA	NA	0.0	111.6	0.2	0.2	0.0 0.0	H 130.7	R_120.6	0.0	R 2,318.9
1996 1997	354.1 340.6	R 20.3 R 19.2	109.5 107.0	2.7 2.8	NA NA	NA NA	0.0 0.0	112.2 109.8	0.2 0.2 0.2 0.2 0.2	0.2 0.2 0.2 0.2 0.2	0.0 0.0	R 132.9 R 129.3	H 94.0	0.0 0.0	H 2,400.1
1998	406.8	H 10 6	100.8	3.4	NA NA	NA NA	0.0	104.2	0.2	0.2	0.0	H 124 1	R 57.0	0.0	R 2,433.5
1999 2000	392.1	R 12.6 R_10.7	101 7	2.9 3.3	NA	NA	0.0	104.6 107.2	0.2 0.2	0.1 0.1	0.0 0.0	R 117.5 R 118.2	R 122.1	0.0 0.0	R 2,462.3
2000	408.1 394.5	<sup>n</sup> 10.7 R 8.9	103.9	3.3 4.5	NA (s)	NA NA	0.0 0.0	107.2 104.7	0.2	0.1 0.1	0.0	<sup>n</sup> 118.2 R 113.0	n 128.1 R 149.1	0.0	R 2,587.7
2001 2002	413.8	H 11 9	100.2 89.4	5.6	(s)	NA	0.0	94.9	0.2 0.2	0.1	0.0	R 113.9 R 107.2	R_133.8	0.0	R 2,545.2
2003	426.3	R 24.6 R 18.5	108.2	7.3	(s)	NA	0.0	115.5	0.3	0.1	0.0	R 140.5 R 111.7	R 76.9	0.0	R 2,529.8 R 2,545.2 R 2,542.7 R 2,626.7
2004 2005	418.1 417.2	H 18.4	84.9 90.8	7.8 2.2	(s) 0.1	NA NA	0.0 0.0	92.8 93.0	0.3 0.4	0.1 0.1	0.0 0.0	H 111 9	R 135.9	0.0 0.0	R 2.661.7
2006	417.0	R 13.1 R 10.2	97.9	3.1 4.5	0.2 0.2	NA	(s) (s)	101.2	0.5	0.2 0.2 R 0.2 0.3 R 0.3 R 0.4	0.0	H 114 9	R 161.1	0.0	R 2,619.2
2007 2008	420.0 415.7	<sup>n</sup> 10.2 R 10.4	82.5 111.9	4.5 24.3	0.2	NA NA	(s) (s)	87.2 136.4	0.6 0.7	0.2 R o 2	0.0 0.0	R 98.1 R 147.6	n 149.4 R 170.1	0.0 0.0	n 2,660.8 B 2,670.3
2009	427.2	R 17.6 R 16.2	96.9	31.2	0.2 0.2	NA	(s)	128.3	0.8	_ 0.3	0.0	R 1/7 n	R 208.4	0.0	R 2,512.8
2010	425.8	R 16.2 R 13.3	109.5 116.3	32.4 32.4	0.2 0.5	NA	(s)	142.1 149.2	0.9	R 0.3	0.0	R 159.5 R 163.8	R 197.4	0.0	R 2,715.7
2011 2012	424.1 412.7	R 12.7	114 4	32.4 33.4	0.5	0.0 0.0	(s) (s)	149.2	0.9 1.0	R 0.4	0.0	R 162 7	R 215.7	0.0	R 2 496 6
2012 2013	412.7 420.5	R 12.7 R 23.5	120.7	33.4 34.5	2.2	0.0	(s)	148.2 157.4	1.0	R 1.7	0.0 0.0	H 183.5	R 144.3	0.0 0.0	R 2,499.8
2014 2015	428.5 440.2	R 16.2 R 16.2	119.3 110.7	33.6 34.6	2.1 2.5	0.0 0.0	(s)	155.0 147.8	1.0 1.0	R 0.9 R 1.7 R 3.0 R 5.2	0.0 0.0 R (s) R 1.6	R 175.2 P 170.2	R 149.1 R 133.8 R 76.9 R 151.0 R 135.9 R 161.1 R 149.4 R 179.1 R 208.4 R 197.4 R 231.6 R 215.7 R 144.3 R 152.1	0.0 0.0	2,626.7 R 2,661.7 R 2,619.2 R 2,6670.3 R 2,512.8 R 2,715.7 R 2,496.6 R 2,499.8 R 2,554.0 R 2,554.0
2016	447.5	H 15 1	106.0	36.7	4.5	0.0	(s) (s)	147.2	1.0	R 12.5 R 18.4 R 21.8 R 26.6 R 29.7 R 36.4	R (s)	H 175 8	R 133.3 R 120.3 R 126.9 R 134.5 R 127.3 R 128.8	0.0	R 2,557.7
2017	443.2	H 13.0	106.0 108.1	36.7 37.7	4.5 4.7	0.0	(s)	150.5	1.0	R 18.4	R 1.6	n 184.4	R 120.3	(s) (s)	R 2,557.7 R 2,505.0 R 2,591.3 R 2,562.0
2018	439.9 437.7	R 22.5 R 21.1	104.8 R 104.2	38.9 39.5	2.6	0.0 0.0	(s) (s)	146.3 145.8	1.0 1.0	R 21.8	R 1.9 R 1.8	R 193.5 R 196.2	P 126.9 R 134.5	(s) 0.0	R 2,591.3
2019 2020	442 2	R 27.2 R 19.8	R 104.2 R 102.7 R 94.6	35.1	2.1 2.3	0.0	(s)	145.8 R 140.0 R 135.7	1.0	R 29.7	Ria	H 199.8	R 127.3	0.0	n 2.358.8
2021 2022	R 449.7 444.7	R 19.8 16.0	R 94.6 90.2	39.2 41.0	R 1.8 1.4	0.0 0.0	(s)	R 135.7 132.6	1.0 1.0	R 36.4 40.7	R 1.8 1.9	R 194.6 192.2	R 128.8 118.3	0.0 0.0	R 2,516.1 2,568.8
2022	444.7	10.0	90.2	41.0	1.4	0.0	(s)	132.0	1.0	40.7	1.9	192.2	110.3	0.0	2,300.0

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, North Carolina

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Ye	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960		41	13,385	2,635	3,401	35,875	4,584	16,310	76,190	48					17,236			
1970		130	21,180	5,489	4,702	56,348	6,332	17,232	111,284	10					40,456			
1980 1990		152 159	23,555 25,799	7,979 8.892	5,209 5,567	66,222 77,525	9,058 5.857	9,251 8,962	121,275 132.602	3 27					63,889 89,924			
2000		221	35,042	14,101	7,277	97,833	4,969	10,720	169,943	946					119,855			
2005	1,557	203	35,892	13,192	7,366	105,796	5,568	9,966	177,780	740					128,335			
2006		195	35,216	13,062	5,323	106,440	4,223	9,170	173,433	506					126,699			
2007		197 207	34,957	12,074	7,161 5,225	107,871	3,756	9,011	174,831	9					131,881			
2008		207	30,110 30,604	13,201 12,225	1,854	114,153 106,647	3,618 2,779	7,408 5,722	173,715 159,831	10 16					130,069 127,658			
2010		231	31,486	12,737	12,443	107,268	2,139	7,537	173,611	13					136,415			
2011		218	30,613	11,324	12,502	103,528	1,211	6,505	165,682	11					131,085			
2012		213		9,665	12,874	101,518	458	7,166	160,179	386					128,085			
2013		239	29,900	8,713	13,797	103,511	199	6,570	162,690	895					129,780			
2014 2015		247 229	31,323 32,443	10,339 9,373	14,365 14,338	103,443 108,294	170 85	6,708 6,432	166,348 170,966	14 11					133,133 133,848			
2016		229	32,626	7,920	14,858	112,222	79	R 7,937	R 175,642	14					134,404			
2017		224	32,538	8,018	15,741	112,095	111	R 8,480	R 176,984	10					131,421			
2018		252	34,402	9,362	15,816	112,105	110	R 8,524	R 180,319	13					138,287			
2019		249	34,666	8,671	16,417	114,578	98	R 7,071	R 181,501	14					136,436			
2020 2021		236 256	33,789 R 33,955	8,869 8,939	11,623 14,468	102,228 112,901	277 109	R 5,790 R 6,594	R 162,576 R 176,965	15 14					130,391 135,693			
2022		261	33,241	9,102	14,400	116,954	112	6,848	181,158	11					139,207	==		
									Trillion	Btu								
1960	87.3	42.2	78.0	10.1	18.2	188.4	28.8	94.9	418.5	R 0.2	73.7	NA	NA	NA	58.8	R 680.7	R 118.6	R 799.3
1970		133.2	123.4	20.7	25.7	296.0	39.8	101.5	607.1	R (s)	65.9			NA	138.0	1,008.7	R 282.8	R 1,291.4
1980		153.4	137.2	29.2	28.7	347.9	56.9	55.7	655.6	(s)	78.9			NA	218.0	1,143.7	R 463.7	R 1,607.4
1990		163.8	150.3	32.7	30.8	407.2	36.8	55.3	713.2	R 0.1	95.7	0.0		0.2	306.8	R 1,358.5	R 651.1	R 2,009.6
2000		227.6 210.1	203.9 208.8	51.7 48.9	41.3 41.8	508.8 549.3	31.2 35.0	66.0 62.2	903.0 946.0	R 3.2 R 2.5	97.2 83.6			0.1	408.9 437.9	R 1,690.0 R 1,721.4	R 897.7 R 940.3	R 2,587.7 R 2.661.7
2008		201.4	206.6	48.0	30.2	551.9	26.5	57.4	918.4	R 1.7	89.5		0.4	0.1	432.3	R 1,679.2	R 939.9	R 2,619.2
2007		203.8	202.2	44.4	40.6	554.7	23.6	56.7	922.2	R (s)	74.0		0.6	0.2	450.0	R 1,682.1	R 978.6	R 2,660.8
2008		213.3	174.0	49.4	29.6	582.9	22.7	46.5	905.1	R (s)	103.9		0.7	0.2	443.8	R 1,701.8	R 968.6	R 2,670.3
2009		212.5	176.8	45.3	10.5	542.8	17.5	35.9	828.8	R 0.1	85.8		0.8	0.3	435.6	R 1,592.2	R 922.0	R 2,514.2
2010 2011		235.1 221.0	181.8 176.6	48.9 43.5	70.6 70.9	543.5 524.2	13.4 7.6	47.3 40.9	905.6 863.7	R (s) R (s)	96.1 100.8	(s)	0.9 0.9	0.3 R <sub>0.3</sub>	465.4 447.3	R 1,731.7 R 1,658.0	R 985.0 R 930.3	R 2,716.7 R 2,588.3
2012		221.0	164.3	43.5 37.1	70.9	524.2 513.9	2.9	40.9 45.7	836.9	R 1.3	96.4		1.0	R 0.4	447.3	R 1,609.6	R 889.3	R 2,498.9
2013		242.1	172.3	33.5	78.2	523.8	1.3	41.1	850.1	R 3.1	102.6		1.0	R 0.6	442.8	R 1,663.7	R 839.1	R 2,502.8
2014		253.2	180.5	39.7	81.4	523.3	1.1	41.9	868.0	R (s)	99.2		1.0	R 0.8	454.2	R 1,696.2	R 860.8	R 2,557.0
2015		237.3	186.9	36.0	81.3	547.6	0.5	40.1	892.5	R (s)	94.2		1.0	R 0.8	456.7	R 1,700.7	R 847.1	R 2,547.8
2016		236.6	187.8	30.4	84.2	567.3	0.5	50.1	R 920.4	R (s)	88.2		1.0	R 1.3	458.6	R 1,723.1	R 837.5	R 2,560.6
2017		232.4 259.7	187.3 198.1	30.8 36.0	89.3 89.7	566.4 566.6	0.7 0.7	R 53.7 R 54.1	R 928.2 R 945.1	R (s) R (s)	R 87.1 85.5		1.0 1.0	R 1.3 R 1.4	448.4 471.8	R 1,713.5 R 1,777.3	R 793.8 R 818.0	R 2,507.3 R 2,595.3
2018		259.7 256.4	198.1	33.3	93.1	500.6 578.8	0.7	R 44.4	R 949.9	R (s)	85.5 84.1	(s) (s)	1.0	R 1.6	465.5	R 1,769.8	R 796.4	R 2,566.3
2020		244.2	194.5	34.1	65.9	516.5	1.7	R 36.1	R 848.8	0.1	R 85.3	(s)	1.0	R 1.8	444.9	R 1,636.6	R 726.8	R 2,363.4
2021	11.3	264.5	R 195.7	34.3	82.0	570.2	0.7	41.2	R 924.1	R (s)	R 82.6	(s)	1.0	R <sub>2.2</sub>	463.0	R 1,748.7	<sup>R</sup> 769.6	R 2,518.3
2022	11.0	269.1	191.6	35.0	84.5	590.5	0.7	42.8	945.1	(s)	80.4	(s)	1.0	2.7	475.0	1,784.3	786.7	2,571.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, North Carolina

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL °	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	587	9	5,887	1,378	10,429	17,693				5,796			
1965	309	9 15	6,654	2,186	10.547	19.388				8,601			
1970	244	27 27	8,663	2,561	10,045 4,901	21,269 14,078				14,660			
1975	111	27	7,261	1,915	4,901	14,078				18,999			
1980	36	34	7,044	2,427	2,747	12,219				24,377			
1985 1990	43 31	29 35	5,449 4,225	2,724 3,648	3,994 1,408	12,167 9,281				26,852			
1990	29	35 49	4,223	3,646 4,990	2,098	11,110				33,144 39,506			
2000	12	64	4,023 3,238	5,933	1 979	11,149				46,537			
2005	12	64	2 228	5,738	1.755	9.720				54 073			
2006	12 10	64 57	2,030	4.936	1,194	8,161				52,851			
2006 2007	4	58	2,030 1,972	4,795	1,755 1,194 849 435 384 552	9,720 8,161 7,617				52,851 56,095			
2008	0	64	1 823	6 304	435	8 562				55.751			
2009 2010	0	66 75	1,271 1,424	6,042 6,372	384	7,697 8,348				56,311			
2010	0	/5	1,424	6,372 5,321	552 270	8,348 6,622				62,160 58,056			
2011	0	62 57	1,031 797	3,843	106	4,745				54,672			
2012	n n	70	857	4,211	105	5,174				56,251			
2014	ŏ	75	845	4.895	170	5.910				58.650			
2015	ŏ	75 65	845 1,571	4,895 4,506	150	5,910 6,227				58,650 57,902			
2016	0	65	1.303	3,862	218	5.384				58.457			
2017	0	60 73	701	3,704	119	4,524				56,134			
2018	0	73	760	4,871	125 149	5,756				61,622			
2019	0	68	704	4,593	149	5,446 4.848				59,853 58,642			
2020 2021	0	64 72	625 R 948	4,070 4,053	152 147	4,848 R 5,148				60,915			
2022	0	72	962	4,354	132	5,448				62,444			
				1,00	.02	5,110	Trillion Btu			02,			
												D	D
1960	14.5	8.9	34.3	5.3 8.4	59.1	98.7	43.9	NA	NA	19.8	185.8 189.5	R 39.9 R 57.7	R 225.7
1965 1970	7.6 5.8	15.1 28.0	38.8 50.5	8.4 9.8	59.8 57.0	107.0 117.3	30.5 20.5	NA NA	NA NA	29.3 50.0	221.6	R 102.5	R 247.2
1975	2.6	28.0	42.3	7.4	27.8	77.4	20.9	NA NA	NA NA	64.8	193.8	R 102.5 R 132.4	R 247.2 R 324.0 R 326.1
1980	0.9	34.4	41.0	9.3	15.6	65.9	23.1	NA	NA	83.2	207.4	R 176.9	R 384.4
1980 1985	1.1	29.6	31.7	10.5	22.6	64.8	23.1 28.6	NA	NA	91.6	215.7	R 186.2	R 384.4 R 401.9
1990	0.8	36.1	24.6	14.0	8.0	46.6	11.7	0.1	0.2 0.2	113.1	208.6	R 240.0	R 448.6
1995 2000	0.7	51.0	23.4	19.2	11.9	54.5 52.8	17.7	0.2		134.8 158.8	259.0	H 288.8	H 547.8
2000	0.3	65.9	18.8	22.8	11.2	52.8	14.2	0.2	0.1	158.8	292.4	R 176.9 R 186.2 R 240.0 R 288.8 R 348.6 R 396.2	n 641.0
2005	0.3	66.2	13.0	22.0	10.0	45.0	15.4	0.4	0.1	184.5	311.9	□ 396.2 B 200.4	R 448.6 R 547.8 R 641.0 R 708.0 R 682.9 R 718.5
2006 2007	0.3 0.1	58.5 60.3	11.8 11.4	19.0 18.4	6.8 4.8	37.5 34.6	13.7 15.1	0.5 0.6	0.2 0.2	180.3 191.4	290.8 302.3	R 392.1 R 416.3	R 718 5
2007	0.0	65.8	10.5	24.2	2.5	37.2	16.9	0.6	0.2	190.2	311.0	R 415.2	R 726.2 R 716.8 R 791.8
2009	0.0	67.3	10.5 7.3	23.2	2.5 2.2	32.7	16.8	0.8	0.2	192.1	310.1	R 406.7	R 716.8
2010	0.0	75.8	8.2	24.5	3.1	35.8	18.0	0.9	0.2 R 0.2	212 1	343.0	R 448.8	R 791.8
2011	0.0	62.5 57.3	5.9	20.4 14.8	1.5 0.6	27.9 20.0	17.5 14.6	0.9 1.0	0.3 0.3	198.1 186.5	R 307 1	R 412.0	R 719.1
2012	0.0	57.3	4.6	14.8	0.6	20.0	14.6	1.0	0.3	186.5	279.7	R 379.6	791.8 R 719.1 R 659.2 R 668.3 R 701.6 R 669.5 R 664.0 R 620.6
2013	0.0	70.6	4.9	16.2	0.6	21.7	19.1	1.0	0.3	191.9	304.6	H 363.7	H 668.3
2014	0.0	77.0	4.9	18.8	1.0	24.6	19.3	1.0	R 0.3 R 0.3	200.1	322.4 R 303.0	□ 379.2 B 000.4	<sup>rt</sup> 701.6
2015	0.0 0.0	66.8	9.1	17.3	0.9	27.2	10.2	1.0 1.0	R 0.3	197.6	R 200 0	R 264.2	11 669.5 R 664.0
2016 2017	0.0	66.8 62.1	7.5 4.0	14.8 14.2	1.2 0.7	23.6 18.9	8.6 7.5	1.0	R 0.4	199.5 191.5	R 299.8 R 281.5	R 339 0	R 620 6
2017	0.0	75.4	4.4	18.7	0.7	23.8	10.2	1.0	R 0.5 R 0.6	210.3	H 321.2	R 364 5	R 685 7
2019	0.0	70.1	4.1	17.6	0.8	22.5	8.9	1.0	Ros	204.2	H 307.5	R 349.4	R 656.9
2020	0.0	66.2	3.6	15.6	0.9	20.1	8.9 R 5.9	1.0	R 1.0 R 1.3	200.1	H 294.3	R 406.7 R 4448.8 R 412.0 R 379.6 R 363.7 R 379.2 R 366.4 R 364.2 R 339.0 R 364.5 R 349.4 R 326.9 R 345.5	R 685.7 R 656.9 R 621.1 R 658.1
2021	0.0 0.0	74.5 74.1	5.5 5.5	15.6 16.7	0.8 0.7	21.9 23.0	R 6.1 6.8	1.0 1.0	R 1.3 1.7	207.8 213.1	R 312.6 319.7	R 345.5 352.9	R 658.1 672.6
2022													

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, North Carolina

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
- Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1 4000	400	4	4.450	500	040	000	400	0.055	NA NA			N/A	0.007			
1960 1965	408 233	4 7	1,156 1,307	523 829	248 251	206 278	122 120	2,255 2,786	NA			NA NA	2,667 5,360			
1970 1975	192 259	22 22	1,701 1,426	972 726	239 117	355 414	179	3,446	NA NA			NA NA	9,697 11,679	==		
1980	135	26	1,673	921	117	790	233 491	2,917 3,992	NA NA			NA NA	14,258			
1985 1990	152	25	2,958	1,033	245	633 782	322 223	5,191	NA			NA	19,163			
7 1990 1995	125 195	31 37	2,302 2,345	1,384 1,893	78 147	782 61	223 185	4,769 4,631	24 15			(s) (s)	25,516 31,104			
2000	101	43	2,679	2,250	234	330	113	5,606	10			(s)	39,067			
2005	137	48	1,669	1.943	162	1.939	229	5.942	18			(s)	44,161			
2006 2007	106 40	46 45	1,471 1,502	1,901 1,940	100 71	1,604 1,153	161 30	5,237 4,696	12 7			(s) (s)	44,585 46,807			
2008	250	49	1,359	2,562	37	1,304	45	5,308	8			4	46,540			
2009 2010	206 191	51 56	1,812 1,636	1,971 2,092	30 65	1,936 983	3	5,752 4,777	14 12			5 5	46,240			
2010	163	50 50	1,522	1,836	27	379	1	3,765	10			14	47,932 46,467			
2012	125	49	1,490	1,794	9	362	(s)	3,654	11			.37	46,510			
2013 2014	134 150	55 60	957 1,227	1,781 2,228	10 22	319 352	`2 6	3,069 3,835	15 14			107 139	46,649 47,510			
2015	145	55	1,281	2,015	10	2,538	i	5,845	11			143	48,236			
2016	119	56	1,182 1,202	1,739	15	2,709	2	5,647	14 10			238 229	48,604 47,890			
2017 2018	105 78	54 58	1,202 1,287	2,131 2,016	7	2,358 2,397	0 1	5,697 5,709	13			229 228	47,890 49,298			
2019	58	57	1,309	1,793	6	2,418	ó	5,527	14			233	49,173			
2020 2021	48 46	52 57	1,161 R 1,236	2,353 2,377	6 9	2,428 2,452	0	5,948 R 6,075	15 14			232 254	45,905 47,715			
2022	37	59	1,238	2,377	8	6,489	(s) (s)	9,911	11			282	49,229	==		
								Tril	lion Btu							
1960	10.1	3.8	6.7	2.0	1.4	1.1	0.8	12.0	NA	0.8	NA	NA	9.1	35.9	R 18.3	R 54.2
1965 1970	5.7 4.6	7.5 22.0	7.6 9.9	3.2 3.7	1.4 1.4	1.5 1.9	0.8 1.1	14.4 18.0	NA NA	0.6 0.4	NA NA	NA NA	18.3	46.6 78.1	H 36 U	R 82.5
1970	6.1	22.0	8.3	2.8	0.7	2.2	1.5	15.4	NA NA	0.4	NA NA	NA NA	33.1 39.8	83.7	R 67.8 R 81.4	R 145.8 R 165.1
1980	3.3	26.5	9.7	3.5	0.7	4.1	3.1	21.2	NA	0.6	NA	NA	48.6	100.2	H 103.5	H 203.7
1985 1990	3.8 3.2	25.9 32.3	17.2 13.4	4.0 5.3	1.4 0.4	3.3 4.1	2.0 1.4	27.9 24.7	NA R 0.1	0.7 1.3	NA 0.0	NA (s)	65.4 87.1	123.7 R 148.5	R 132.9 R 184.7	R 256.5 R 333.3
1995	4.9	38.6	13.6	7.3	0.8	0.3	1.2	23.2	R (s)	2.4	0.0	(s)	106.1	n 175.3	n 227.3	R 402.7
2000	2.7	44.4	15.6	8.6	1.3	1.7	0.7	28.0	R (s) R 0.1	2.4 2.5	0.0 0.0	(s)	133.3	210.9 R 235.7	R 292.6 R 323.6	R 503.5 R 559.3
2005 2006	3.5 2.7	49.4 47.9	9.7 8.5	7.5 7.3	0.9 0.6	10.1 8.3	1.4 1.0	29.6 25.7	R (s)	2.3	0.0	(S) (S)	150.7 152.1	R 230.7	R 330 7	R 561.5
2007	1.0	47.0	8.7	7.3 7.5	0.4	5.9	0.2	22.7	R (s)	2.4	0.0	(s)	159.7	R 230.8 R 232.8	R 330.7 R 347.3	R 561.5 R 580.1
2008 2009	6.7 5.5	50.0 52.6	7.9 10.5	9.8 7.6	0.2 0.2	6.7 9.9	0.3	24.9 28.1	R (s) R (s)	2.6	0.0 0.0	(S)	158.8 157.8	243.0 R 246.5	R 346.6 R 334.0	R 589.5 R 580.4
2010	5.1	57.2	9.4	8.0	0.4	5.0	(s) (s)	22.8	R (s)	2.4 2.3	0.0	R (s)	163.5	R 251.1	H 3/16 1	R 580.4 R 597.2
2011	4.3	50.6	8.8	7.1	0.2	1.9	(s)	17.9	R (s)	2.3 2.0	0.0	R (s) R 0.1	158.5	R 233.7	R 329.8	R 563.5
2012 2013	3.3 3.6	49.7 56.1	8.6 5.5	6.9 6.8	(s) 0.1	1.8 1.6	(s) (s)	17.4 14.0	R (s)	2.0	0.0 0.0	R 0.4	158.7 159.2	R 231.2 R 236.0	R 329.8 R 322.9 R 301.6	R 563.5 R 554.1 R 537.6
2014	4.0	61.4	7.1	8.6	0.1	1.8	(s)	17.6	R (s)	3.1 2.1	0.0	R 0.5	162.1	H 248.7	H 307 2	n 555.9
2015 2016	3.9 3.1	57.1 57.8	7.4 6.8	7.7 6.7	0.1 0.1	12.8 13.7	(s)	28.0 27.3	R (s) R (s)	2.1 2.1	0.0 0.0	R 0.5 R 0.8	164.6 165.8	R 256.2 R 257.0	R 305.3 R 302.9	R 561.4 R 559.9
2016	2.8	57.8 55.7	6.9	8.2	(s)	11.9	(s) 0.0	27.3 27.1	R (s)	2.1	0.0	R 0.8	163.4	R 251.7	R 289 2	R 541 0
2018	2.0	59.7	7.4	7.7	(s)	12.1	(s)	27.3	R (s)	2.1	0.0	R 0.8	168.2	H 260 2	H 291 6	R 551 8
2019 2020	1.5 1.3	59.1 53.9	7.5 6.7	6.9 9.0	(s)	12.2 12.3	0.ó 0.0	26.7 28.0	R (s) 0.1	1.7 1.9	0.0 0.0	R 0.8 R 0.8	167.8 156.6	R 257.6 R 242.6	R 287.0 R 255.9	R 544.7 R 498.4
2021	1.2	58.6	7.1	9.1	(s)	12.4	(s)	28.7	R(s)	1.8	0.0	R 0.9	162.8	R 254.1	n 2/0.6	H 524.7
2022	0.9	60.6	7.1	8.4	(s)	32.8	(s)	48.3	(s)	1.3	0.0	1.0	168.0	280.1	278.2	558.3

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, North Carolina

					Petro	leum				Rio	mass						
		Natural	Distillate		Motor	Residual			Hydro- electric	Dio	IIIaaa						
	Coal	gas <sup>a</sup>	fuel oil	HGL <sup>b</sup>	gasoline <sup>c</sup>	fuel oil	Other <sup>d</sup>	Total	power e,f				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use f,k	system energy losses	Total f,k
1960	2,421 2,563	26 47	3,155 4,710	730	1,089 1,315	3,967 4,005	4,396 5,538	13,336 16,724	48 37				NA	8,773 10,707			
1965 1970	2,563 2,267	47 75	4,710 4,514	1,156 1,891	1,315 1,004	4,005 5,809	5,538 6,273	16,724 19,492	37 10				NA NA	10,707 16,099			
1975	1,479	62	4,271	3,695	782	7,045	5,612	21,404	5				NA NA	20,875		==	
1980	1,375	86	4,131	4,581	514	8,468	5,536	23,230	3				NA	25.254			
1985 1990	2,247 2,989	75 86	3,613 3,467	3,606 3,700	832 807	5,814 5,121	5,981 6,614	19,845 19,708	3				NA (s)				
1995	2,437	107	4,640	5,115	977	5,779	8,331	24,842	1,636				(s)	34,063			
2000 2005	1,762 1,408	107 87	4,207 4,272	5,820 4,264	804 1,831	4,729 4,918	7,705 7,362	23,265 22,646	936 722				(s)	34,252 30,101			
2006	1,225	87	3,914	5,052	1,941	3,869	7.224	22,000	494				(s)	29,263			
2007	1,148	88	3,923	4,440	1,385	3,136	7,433 6,295	20,317	2				(s)	28,978			
2008 2009	1,066 869	89 82	3,369 2,952	2,807 3,077	1,131 1,115	2,843 2,084	6,295 4,771	16,445 13,999	2				(s) (s)	27,773 25,100			
2010	883	92	3,010	4,216	1,662	1,748	6,050	16,685	2				(s)	26,316			
2011	764	99	3,000	4,109	1,702	916	5,386	15,114	1				(s)	26,555			
2012 2013	661 663	102 110	2,915 3,359	3,975 2,652	1,585 1,659	454 198	6,308 5,689	15,236 13,557	375 881				(s) (s)	26,896 26,872			
2014	592	108	3,219	3,158	1,271	164	5,761	13,573	0				(s) 2				
2015 2016	552 526	105 106	3,370 3,776	2,776 2,221	1,299 1,280	74 56	5,440 R 6,892	12,960 R 14,225	0				2				
2016	526 454	106	3,776	2,221	1,280	83	H 7 592	H 14 981	0				7	27,337			
2018	398	117	3,731	2,432	1,324	82 55	H 7 646	<sup>rt</sup> 15,214	Ō				7	27,354			
2019 2020	361 347	119 115	3,857 3,428	2,250 2,403	1,316 1,328	55 276	R 6,180 R 4,961	R 13,659 R 12,396	0				7 14	27,391 25.828			
2021	374	122	3,683	2,474	1,303	75	H 5,525	R 13,061	0				15				
2022	375	123	3,723	2,503	1,362	77	5,799	13,464	0				16	27,519			
									Trillion Bt	ı							
1960	61.6	27.0	18.4	2.8	5.7	24.9	27.6	79.4	R <sub>0.2</sub> R <sub>0.1</sub>	29.0	NA	NA	NA		R 227.0	R 60.4 R 71.9	R 287.4
1965 1970	64.6 53.9	48.3 76.9	27.4 26.3	4.4 6.9	6.9 5.3	25.2 36.5	34.1 39.2	98.0 114.2	R (s)	36.2 45.0	NA NA	NA NA	NA NA		R 283.8 345.0	H 1125	H 157 5
1975	34.7	63.2	24.9	13.1	4.1	44.3	34.9	121.3	R (s)	45.1	NA	NA	NA	71.2	335.6	R 145.4	R 481.0
1980 1985	33.6 55.9	86.6 77.4	24.1 21.0	16.1 12.3	2.7 4.4	53.2 36.6	34.5 37.4	130.7 111.7	(s) (s)	55.3 64.8	NA 0.0	NA NA	NA NA			R 183.3 R 182.2	R 575.6 R 581.5
1990	74.5	88.9	20.2	12.8	4.4	32.2	41.9	111.7	(s)	82.8	0.0	0.0	(s)		R 464.2	R 226.4	R 690.6
1995	61.6	110.3	27.0	17.7	5.1	36.3	53.7	139.8	R 5.6	84.9	0.0	0.0	(s)	116.2	H 512 3	H 249.0	H 767 3
2000 2005	46.7 36.9	109.8 90.0	24.5 24.9	19.9 14.6	4.2 9.5	29.7 30.9	48.7 47.3	127.0 127.2	R 3.2 R 2.5	80.6 65.7	0.0 0.0	0.0 0.0	(s)	116.9 102.7	R 484.2 R 425.0	R 256.5 R 220.5	R 740.7 R 645.5
2006	32.2	90.2	22.7	17.3	10.1	24.3	46.2	120.6	R 1.7	73.5	(s) (s)	0.0	(s)	99.8	H 418.0	R 217.1	<sup>rt</sup> 635.1
2007	30.1	91.4	22.7	15.1	7.1	19.7	47.6	112.2	(s)	56.4	(s)	0.0	(s)		389.0	R 215.0	R 604.0
2008 2009	27.9 22.8 23.1	92.0 84.4	19.5 17.1	9.5 10.2	5.8 5.7	17.9 13.1	40.0 30.3	92.6 76.4	(S)	84.5 66.6	(s)	0.0 0.0	(S)	94.8 85.6	391.7 335.8	R 206.8 R 181.3	R 598.5 P 517.1
2010	23.1	93.9	17.4	16.2	8.4	11.0	38.7	91.7	(s)	75.8	(s) (s)	0.0	(s)	89.8	374.3	R 190.0	R 564.3
2011 2012	19.8 17.2	100.5 103.6	17.3 16.8	15.8 15.3	8.6 8.0	5.8 2.9	34.3 40.6	81.8 83.6	(s) R 1.3	81.0 79.8	(s) (s)	0.0 0.0	(s)	90.6 91.8	373.7 R 377.2	R 188.4 P 186.7	R 562.2 R 564.0
2012	17.9	111.2	19.4	10.2	8.4	1.2	35.9	75.1	R 3.0	80.7	(S)	0.0	(S)	91.7	R 379.6	R 173 7	H 553.4
2014	15.8	110.6	18.6	12.1	6.4	1.0	36.3	74.5	0.0	76.9	(s)	0.0	(s)	92.0	369.7	R 174.4	H 544.1
2015 2016	14.3 13.9	108.8 109.1	19.4 21.7	10.7 8.5	6.6 6.5	0.5 0.3	34.3 R 44.0	71.4 R 81.1	0.0	81.9 77.5	(s) (s)	0.0 0.0	(s)	94.5 93.3	370.9 374.9	R 175.3 R 170.3	R 546.2 R 545.2
2017	12.4	111.2	22.2	8.3	6.5	0.5	R 48.4	R 86.0	0.0	77.6	(s)	0.0	R (s)	93.5	R 380.7	R 165.5	R 546.1
2018	10.8	120.2	21.5	9.3	6.7	0.5	R 48.9	H 86.9	0.0	73.1	(s)	0.0	R/ci	033	R 384.4	R 161.8	R 546.2
2019 2020	9.7 9.4	122.9 119.1	22.2 19.7	8.6 9.2	6.6 6.7	0.3 1.7	R 39.2 R 31.2	R 77.1 R 68.7	0.0 0.0	73.5 77.5	(s)	0.0 0.0	R (s) R (s)	93.5 88.1	R 376.7 R 362.8	R 159.9 R 144.0	R 536.6 R 506.7
2021	10.1	126.4	21.2	9.2 9.5	6.6	0.5	н 35.0	R 72.8	0.0	74.6	(s) (s)	0.0	H (s)	92.3	n 3/6.3	R 153.4	R 529.7
2022	10.0	126.5	21.5	9.6	6.9	0.5	36.7	75.1	0.0	72.3	(s)	0.0	0.1	93.9	378.0	155.5	533.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, North Carolina

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
1960	42	2	692	3 187	5	3,401	545	34 580	494	42,905	0			
1965 1970	42 8	4	714	3,187 4,458 6,301	17 65	3,649	545 578 523	34,580 41,551 54,989	581	51,548 67,077	0			
1975	(s)	6	151 219	6,301 8,207	108	4,702 3,809	523 498	54,989 65,739	345 263	67,077 78,844	0			
1980 1985	0	6	215	10,707	50	5,209	498 635	65,739 64,918	99	81,834	Ö			
1990	0	5 6	174 213	13,827 15,804	183 160	6,668 5,567	578 650	69,392 75,937	97 513	90,917 98,844	0			
1995	0	6	139	19,855	141	4,947	620 662	85,383 96,699	299	111,384 129,923	0			
2000 2005	0	4	140 128	24,918 27,724	98 1,247	7,277 7,366	559	102 026	128 421	139 472	0 (s)			
2006	0	5	107	27,801	1,173 900	5,323 7,161	544 562	102,895 105,333	193 590	138,036 142,202	(s) (s)			
2007 2008	0	5 5	96 118	27,561 23,559	900 1.528	7,161 5,225	562 522	105,333	590 730	142,202 143,399	(s) 5			
2009	Ö	8	68	24.568	1,528 1,135 56 57 54 68 59 76	1,854	469	103.597	693	143,399 132,383 143,801	7			
2010 2011	0	8 7	157 147	25,417 25,061	56 57	12,443 12,502	713 675	104,624 101,446	391 293	140 180	7			 
2012	Ö	5	142	23,297	54	12,874	602 644 670	99,571 101,533	3	136,543 140,891	7			
2013 2014	0	4	122 84	24,726 26,032	68 59	13,797 14,365	644 670	101.820	0 (s)	143 031	9			
2015	Ō	4	90	26,220	76	14,338	742	104,458 108,232	(s) 9	145,933	9			
2016 2017	0	3	93 98	26,365 26,781	98 26	14,858 15,741	742 R 719 R 664	108.443	21 28	145,933 R 150,385 R 151,781	6 4			
2018	0	4	102 108	28,623 28,796	43 34	15,816 16,417	R 645 R 627 R 570	108,384 110,844	27 43	R 153,640 R 156,869	13 19			
2019 2020	0	4 5	108 102	28 574	34 43	16,417 11,623	R 570	110,844 98,473	43	R 139,385	19 16			
2021	ŏ	5	117	H 28.088	43 34	14,468	n 602	109,146	33	<sup>H</sup> 152,682	14			
2022	0	8	121	27,318	68	14,901	630	109,103	34	152,335	15			
								illion Btu						
1960 1965	1.1	2.5	3.5 3.6	18.6 26.0	(s) 0.1	18.2 19.7	3.3	181.6 218.3	3.1 3.7	228.4 274.8	0.0 0.0	232.0 279.4	0.0 0.0	232.0 279.4
1970	0.2 0.1	4.4 6.3 3.6	0.8	36.7 47.8	0.2	25.7	3.5 3.2 3.0	288.9 345.3	2.2	357.7 420.2	0.0	364.0	0.0	364.0
1975 1980	(s) 0.0	3.6 5.9	1.1 1.1	47.8 62.4	0.4 0.2	20.8 28.7	3.0 3.8	345.3 341.0	1.7 0.6	420.2 437.8	0.0 0.0	423.8 443.8	0.0 0.0	423.8 443.8
1985	0.0	4.9 6.5	0.9	80.5	0.2	37.0	3.5	364.5	0.6	487.8	0.0	493.4	0.0	493.4
1990 1995	0.0 0.0	6.5 6.3	1.1 0.7	92.1 115.6	0.6 0.5	30.8 28.0	3.9 3.8	398.9 444.3	3.2 1.9	530.6 594.8	0.0 0.0	537.1 601.1	0.0 0.0	537.1 601.1
2000	0.0	7.4	0.7	145.0	0.5	41.3	4.0	502.9 529.7	0.8	695.1	0.0	702.5	0.0	702.5 748.8
2005 2006	0.0 0.0	4.5 4.8	0.6 0.5	161.3 161.3	4.8 4.5	41.8 30.2	3.4 3.3	529.7 533.5	2.6 1.2	744.3 734.6	(s) (s)	748.8 739.6	(s) (s)	748.8 739.6
2007	0.0	5.2	0.5 0.6	159.4 136.2	3.5 5.9	40.6 29.6	3.4 3.2	541.6	3.7	752.7 750.4	(s)	758.1 756.1	(s)	758.1 756.2
2008 2009	0.0 0.0	5.2 5.5 8.1	0.6 0.3	136.2 141.9	5.9 4.4	29.6 10.5	3.2 2.8	570.4 527.3	4.6 4.4	750.4 691.7	(s)	756.1 699.8	(s) (s) (s) R (s)	756.2 699.9
2010	0.0	8.2 7.5	0.8	146.8	0.2	70.6	4.3	530.1	2.5	755.3	(s) (s)	763.4	0.1	763.5
2011 2012	0.0 0.0	7.5	0.7 0.7	144.6 134.4	0.2 0.2	70.9 73.0	4.1 3.7	513.6 504.0	1.8	736.0 716.0	(s)	743.5 721.5	0.1 R (s) R (s)	743.5 721.6
2013	0.0	5.5 4.2	0.6	142.5	0.2	78.2	3.9	513.8	(s) 0.0	739.3	(s) (s)	743.5	R (s)	743.5
2014 2015	0.0 0.0	4.1 4.6	0.4 0.5	150.0 151.1	0.2 0.3	81.4 81.3	4.1 _ 4.5	515.1 528.2	(s) 0.1	719.0 739.3 751.3 765.9 R 788.5 796.2 R 807.1	(s) (s)	755.4 770.6	0.1 0.1	743.5 755.5 R 770.6
2016	0.0	2.9 3.4	0.5 0.5 0.5	151.8	0.4	84.2	H 4.4	547.1	0.1	R 788.5	(s)	791.4	(s)	791.4
2017 2018	0.0 0.0	3.4	0.5 0.5	154.2 164.8	0.1 0.2	89.3 89.7	4.0 3.9	548.0 547.8	0.2 0.2	796.2 B 907.1	(s)	799.6	(s) (s) 0.1	799.6 811.6
2019	0.0	4.4 4.4	0.5 0.5 0.5	165.8	0.1	93 1	3.9 3.8 R 3.5	560.0	0.2	11 823 7	(s) 0.1	811.5 R 828.1	0.1	828.2
2020	0.0	4.4 5.0	0.5	165.8 164.5 <sup>R</sup> 161.9	0.2	65.9	R 3.5 R 3.7	497.5	(s)	732.0 R 800.7	0.1	737.0 R 805.7	0.1	737.1 R 805.8
2021 2022	0.0 0.0	4.9 7.8	0.6 0.6	157.5	0.1 0.3	82.0 84.5	3.8	551.2 550.9	0.2 0.2	798.6	(s) 0.1	806.5	0.1 0.1	806.5

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, North Carolina

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million ki	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
960	5,488	5	60	0	19	79	0	4,951		0	NA	NA	0	
965 970	9,595 17,709	5 3	60 53	Ö	16 445	79 70	0	5,349 4,363		Ö	NA	NA	Ō	
970	17,709	21	1,432	0	445	1,877	0	4,363		0	NA	NA	0	
975 980	18,206 23,920	(s) 2	93 561	0	237 (s)	330 561	1,405 5,775	7,050 5,483		0	NA NA	NA NA	0	-
985	19,610	1	443	0	0	443	19,303	4,091		0	0	0	0	_
990	19,444 23,774	3	390 533	0	0	300	25.905	6.792		0	0	0	0	-
995	23,774	3 6 13 27	533	0	0	533 1,169 548 473 525	35,910	3,871		0	0	0	0	_
000 005	29,496 31,303	13	1,169 548 473 525 477	0	0	1,169	39,127 39,982	2,192 4,656		0	0	0	0	-
JU5 106	31,303	27	548 472	0	0	548 472	39,982	4,656		0	0	0	0	_
006 007	30,456 32,412	28 40	525	0	0	525	39,963 40,045	3,333 2,975		0	0	0	0	_
008	31.116	36	477	0	Ō	4//	39,776	3.024		0	2	0	0	-
009 010	26,427 29,455	40 73	484 528	0	0	484 528	40,848	5,155 4,743		0	.5	0	0	-
010	29,455	73	528	0	0	528	40,740	4,743		0	11	0	0	-
011 012	24,591 20,876	90 151	381 342 392	0	0	381 342 392 879	40,527 39,386	3,882 3,342 6,005 4,742		0	17 138	0	0	-
012	19,170	151 201	392	0	0	392	40,242	6,042		0	297	0	0	-
014	19.539	206	879	ŏ	ŏ	879	40,967	4.742		ŏ	652	ŏ	ŏ	-
015	15,666	269 293	791	0	0	791	42,097	4,731 4,403		0	1,296	0	0	-
016	14,802	293	477	0	0	477	42,786	4,403		0	3,296	_6	0	-
017	13,461	278	472	0	0	472	42,374	3,808		0	4,996	471	1	-
018 019	12,599 12,352	330 304	1,205 344	0	0	1,205 344	42,077 41,916	6,592 6,172		0	5,999 7,342	543 523	1	-
020	8,575	303	231	0	0	231	42,329	7,942		0	8,173	546	0	-
021	8,451	361	231 358 512	ŏ	ŏ	231 358 512	43,118	5,799		ŏ	10,011	515	ŏ	-
2022	6,029	463	512	Ó	0	512	42,644	4,675		0	11,146	547	0	-
							Trillion Btu							
960	144.0	4.8	0.4 0.3	0.0	0.1 0.1	0.5 0.4	0.0	R 16.9	0.0	0.0	NA	NA	0.0 0.0	R 166. R 269.
965 970	247.7	3.0	0.3	0.0	0.1	0.4	0.0	R 18.3	0.0	0.0	NA	NA	0.0	R 474
970 075	427.0 433.1	21.6 0.1	8.3 0.5	0.0 0.0	2.8 1.5	11.1 2.0	0.0 15.5	R 14.9 R 24.1	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	R 474
975 980 985	433.1 586.9	1.8	8.3 0.5 3.3 2.6 2.3 3.1	0.0	(s)	3.3 2.6	15.5 63.0	R 18.7 R 14.0	0.0	0.0	NA	NA	0.0 0.0 0.0	R 472 R 673 R 711
985	489.8	0.6	2.6	0.0	(s) 0.0	2.6	205.0	R 14.0	0.0	0.0	0.0	0.0	0.0	R 71
990 995	489.8 595.7	2.9 5.8	2.3	0.0	0.0	2.3 3.1	274.1	R 23.2 R 13.2 R 7.5	1.8 6.5	0.0	0.0	0.0	0.0	R 79
995	595.7	5.8	3.1	0.0	0.0	3.1	377.3	n 13.2	6.5	0.0	0.0	0.0	0.0	n 1,00
000	736.4 771.2	13.2 27.4 28.7	6.8	0.0	0.0	6.8	408.1 417.2	11 7.5 R 15 0	6.7	0.0 0.0	0.0	0.0	0.0	R 1,17
005 006	771.2 742.8	27.4 28.7	3.2 2.7 3.0 2.8 2.8 3.1	0.0 0.0	0.0 0.0	3.2 2.7	417.2	R 15.9 R 11.4	7.2 8.4	0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 1 21
007	796.7	40.7	3.0	0.0	0.0	3.0	420.0	R 10.1 R 10.3 R 17.6 R 16.2	8.5	0.0	0.0	0.0	0.0	R 1.27
008 009	760.1	36.4 40.2 73.6	2.8	0.0	0.0	2.8 2.8	415.7	R 10.3	7.9	0.0	(s)	0.0 0.0	0.0 0.0	R 1,23
009	650.4 721.0	40.2	2.8	0.0	0.0	2.8	427.2	H 17.6	11.0	0.0	(s) R (s) R 0.1	0.0	0.0	H 1,14
010	/21.0	/3.6 90.2	3.1	0.0 0.0	0.0 0.0	3.1	425.8 424.1	n 16.2	13.4	0.0	n (s)	0.0	0.0	n 1,25
011 012	600.7 514.2	151.8	2.2	0.0	0.0	2.2 2.0	424.1 412.7	13.∠ R 11 /	15.5 18.0	0.0 0.0	R 0.1	0.0 0.0	0.0 0.0	T, 141
013	472.3	203.0	2.2 2.0 2.3 5.1 4.6	0.0	0.0	2.3	420.5	R 13.2 R 11.4 R 20.5	18.1	0.0	R 0.5 R 1.0 R 2.2 R 4.4	0.0	0.0	R 1.13
014	481.9	209.1 278.7	5.1	0.0	0.0	5.1 4.6	428.5	R 16.2 R 16.1	20.0	0.0	R 2.2	0.0	0.0 0.0	R 1,160
015	387.3	278.7	4.6	0.0	0.0	4.6	440.2	R 16.1	16.6	0.0	R 4.4	0.0	0.0	R 1,148
016	364.7	303 6	2.7 2.7 6.9	0.0	0.0	2.7	447.5	H 15 0	17.8	0.0	T 11 2	R (s) R 1.6 R 1.9	0.0	H 1,16
2017 2018	335.1 312.3	288.3 339.6	2.7	0.0 0.0	0.0 0.0	2.7	443.2 439.9	R 13.0 R 22.5	20.9	0.0	R 17.0 R 20.5	n 1.6	(s)	n 1,12
2018	312.3	339.6	0.9 2.0	0.0	0.0	6.9 2.0	439.9 437.7	R 21 1	19.3 20.0	0.0 0.0	R 25.1	1.9 R 1 g	(s) (s) 0.0	1,162 R 1 12
2020	213.3	313.4	2.0 1.3	0.0	0.0	1.3	437.7 442.2	R 27.1	17.3	0.0	R 25.1 R 27.9	R 1.9	0.0	R 1.04
2021	211.2 152.0	373.1 478.1	2.1 3.0	0.0	0.0	2.1	H 449.7	R 21.1 R 27.1 R 19.8	12.0	0.0	H 34.2	R 1.8 R 1.9 R 1.8 1.9	0.0	R 79- R 1,00' R 1,17' R 1,24' R 1,21' R 1,23' R 1,144' R 1,11' R 1,13' R 1,144' R 1,16' R 1,12' R 1,16' R 1,14'
022	152 0	478 1	3.0	0.0	0.0	3.0	444.7	16.0	9.7	0.0	38.0	1 9	0.0	1 1/1

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

-- = Not applicable. NA = Not available.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, North Dakota

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>9</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				Mi	illion kilowatthou	rs	Thousan	d barrels
1960	2,100	26	3,773	1,212	2,103	7,719	687	3,089	18,583	0	1,060	0	NA	NA
1965	1,719	26 32 33 34 36 32 35 37	5.170	1,154	2.069	8,212	868	2.054	19 526	Ö	2 497	0	NA	NA
1970 1971	4,186 5,049	33	4,975 4,923	1,719 1,709	2,074 2,225	8,766 9,182	728 654	2,879 3,166	21,141	0	2,815 3,235	0	NA NA	NA NA
1972	5,049	36	5.206	1,832 1,607	2,044	9,575	777	2,673	21,859 22,107	0	3,095	0	NA NA	NA NA
1973	5,434 5,272	32	5,206 4,750 4,421 4,446	1,607	1.857	9,993	899	3,009	22 115	0	2 382	0	NA	NA
1974 1975	5,696 5,100	35 27	4,421	1,584 1,580	1,941 1,855	9,630 10,044	1,174 1,089	2,769 2,463	21,519 21,477	0	2,729 3,345	0	NA NA	NA NA
1976	6.924	41	4 079	1,663	1,800 1,905	10,044	1,009	2 484	21 471	0	3,272	0	NA	NA
1977	6,924 8,073	38 39 29 23 34 28	4,097	1,663 1,594	1,905	10,411 10,430	1,033 955	2,271	21,252	Ō	3,272 1,994	0	NA	NA
1978 1979	9,706 11,099	39	4,229 8,323	1,962 1,711	1,837 1,824	10,782 9,795	906 910	2,608 2,307	22,324 24,871	0	3,034 2,736	0	NA NA	NA NA
1980	12.346	23	8 139	1 302	1.702	9,167	716	2.057	23.083	0	2 513	0	NA NA	NA NA
1981	13,018	34	7,689 7,248	1,451 1,446	1,629	9,523	1,119	1,657	23,069	Ö	2,250 2,553	Ö	31	NA
1982 1983	14,977 16,190	28	7,248	1,446	1,583 1,495	9,340 9,017	1,129 1,508	1,672 2,204	22,418	0	2,553	0	15 10	NA NA
1984	19,656	30	6,867 7,743	1,455 477	1,495	9,017 8,867	1,006	2,204	22,546 21,944	0	2,377 2,362	0	10	NA NA
1985	22,958	28	7,637 7,548	549	1.682	8.822	505	2.051	21 246	Ö	2.173	(s)	69	NA
1986	23,587	26 30 28 25 25 29 30	7,548 7,172	1,730 1,773	1,646 1,254	8,580	377	1,947 2,066	21,827 21,458 21,101 21,622	0	2,326 1,982	(s)	142	NA NA
1987 1988	24,101 28,029	25 29	7,172 6,943	1,773	1,254	8,837 8,588	355 349	2,066	21,458	0	1,982	(s) 0	153 108	NA NA
1989	27.401	30	7.550	1 747	1,336	8.398	294	2.297	21,622	Ö	1.893	0	110	NA
1990 1991	28,114 28,597	32 40	7,219 7,377	1,426	1,178 964	8,151 8,255	326 304	2,168 1,965	20,468 20,891	0	1,711 1,757	0	85 127	NA NA
1991	28,597 30,301	40 37	7,377 6,926	1,426 2,025 1,771	1,405	8,233	304 287	2,840	20,891	0	1,757	0	148	NA NA
1993	30,302	40	7 363	1,369	1,254	8,482	394	2,253	21,463 21,114	Ŏ	1.415	Ö	147	NA
1994 1995	30,363 30,237	43 45 49	7,736 8,005 8,334	1,316	846	8,387 8,650	338	2,631 2.141	21 254	0	1,856 2,457	0	174 164	NA NA
1995	30,237	45 49	8,005 8,334	1,754 2,226	333 246	8,683	164 135	2,141 2,391	21,047 22,015	0	2,457 3,151	0	122	NA NA
1997	29,360	56	8,034	2,534 1,976	189	8,628	187	2,698	22,270 20,844	ő	3,320 2,296	ŏ	119	NA
1998	31,060	50	7,181	1,976	211	8,681	44	2,751	20,844	0	2,296	0	116	NA
1999 2000	31,276 31,902	56 50 56 57	7,548 7,805	2,675 3,354	405 413	8,711 8,512	44 61 78	3,451 2,375	22,850 22,538	0	2,609 2,123	0	123 149	NA NA
2001	31 524	61	8.869	5 426	751	8.478	69	2.839	26,432	Ő	1 332	Ö	179	4
2002	31,984 31,970	67	8,202	3,406 2,775	528 558	8,554	101	2,540	26,432 23,331 22,871	0	1,593 1,724	0	228	6
2003	31,970	61 60	8,548 9,405	2,775	1 003	8,675 8,603	143 63	2,173	22,871	0	1,724 1,546	59 215	273	5
2004 2005	30,079 32,044	53	9,798	3,311 3,370	1,093 646	8,603 8,716	63 256	2,491 2,909	24,966 25,695	Ő	1,546 1,342	220	243 530	10 35
2006	31,073	60 53 53 59 63 55 66	9,966	2.766	735 710	8.455	105 94 92 61	3.406	25.433	0	1,521 1,305	369	512	102 138
2007 2008	31,340 31,376	59 63	11,934 11,885	3,023 2,847	710 613	8,648 8,703	94	2,098 1,923	26,507 26,064	0	1,305	621 1,693	626 755	138 118
2009	31,376 31,183	55	9,668	2,950 2,549	687 769	8,915	61	2,302	24,583	0	1,253 1,475	2,998	800	125
2010	29,861	66	12.968	2,549	769	9.244	40	2,518	28.088	Ō	2.042	4.096	981	101
2011 2012	28,592 29,423	72 73 82 87 98	18,193 20,842	2,524 2,373	835 720	9,753 10,319	59 22	3,145 2,901	34,509 37,177	0	2,580 2,477	5,236 5,275	974 1,041	345 388
2013	28,510	82	23 178	3,337	876	10 731	2	3.542	41 667	0	1,852	5.519	1,093	688
2014	28,510 28,816	87	25,552 18,618	3,337 3,104 2,789	789 1,005	11,194 11,177	2	3,502	44,144 36,731 R 31,560 R 34,972	Ō	1,852 2,531 2,094	6,202	1,093 1,136 1,165	689 444
2015 2016	29,477 28,370	98 102	18,618 14.696	2,789 2.666	1,005 834	11,177 10,564	1	3,141 R 2 700	36,731 R 31,560	0	2,094	6,506 8,172	1,165 1,095	444 519
2017	28,804	109	17,686	3,030	763	10,425	0	R 2,799 R 3,068	R 34,972	0	1,912 2,582	11,359	1,085	529
2018	29,760	126	18,886	2,870	818	10.437	Õ	H 2 032	R 35,943 R 36,021 R 31,236	Ö	3.180	10.733	1,077	501 R 383
2019 2020	27,192 26,440	148 R 176	18,109 15,421	3,915 3,111	776 786	10,485 9,310	0	R 2,735 R 2,609	n 36,021 R 31 226	0	3,179 2,450	11,213 13,634	1,102 983	n 383
2020	26,358	184 188	R 15,826	2,929	806	9,310	0	R 2,765	R 32,115	0	1,989	14,935	1,026	436 R 380 389
2022	26,979	188	16,207	2,927	812	9,630	ő	2,754	32,330	Ö	1,791	16,250	1,021	389

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, North Dakota (trillion Btu)

					Fossi	fuels					_	Fossil fuels as commingled)	
						Petroleum						as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	30.5	27.4	22.0	4.6	11.3	40.5	4.3	18.9	101.6	159.5	27.4	22.0	40.5
1965	24.7	32.4 33.7	30.1	4.4	11.1	43.1	5.5	12.7	106.9	164.1	32.4 33.7	30.1	43.1
1970 1971	57.5 67.7	33.7 34.6	29.0 28.7	6.6 6.5	11.2 12.0	46.0 48.2	4.6 4.1	18.0 19.9	115.4 119.5	206.6 221.8	33.7 34.6	29.0 28.7	46.0 48.2
1971	72.8	37.6	30.3	7.0	12.0	40.2 50.3	4.1	16.7	120.2	230.6	37.6	30.3	50.3
1973	71.1	33.2	27.7	6.1	10.0	50.3 52.5	5.7	18.9	120.2 120.9	225.2	37.6 33.2	27.7	50.3 52.5
1974 1975	76.5 67.9	35.5 36.9	25.7 25.9	6.0 6.0	10.5 10.0	50.6 52.8	7.4 6.8	17.4 15.4	117.6 116.9	229.6 221.7	35.5 36.9	25.7 25.9	50.6 52.8
1975	91.5	36.9 41.2	23.8	6.3	9.7	52.8 54.7	6.5	15.4	116.5	249.2	41.2	25.9 23.8	52.8 54.7
1977	107.3	37.6	23.9	6.0	10.3	54.8	6.0	14.1	115.1 120.6	260.1	37.6	23.9	54.8
1978 1979	129.8 148.1	39.1 29.2	24.6 48.5	7.4 6.3	9.9	56.6	5.7 5.7	16.3 14.4	120.6 136.2	289.4 313.5	39.1 29.2	24.6	56.6 51.5
1979	163.3	29.2	48.5 47.4	4.8	9.9 9.2	51.5 48.2	5.7 4.5	14.4	126.8	313.5	29.2 24.0	48.5 47.4	51.5 48.2
1981	172.4	35.5	44.8	5.4	8.8	50.0	7.0	10.5	126.6	334.4	35.9	44.8	50.0
1982 1983	198.9	29.0 27.3	42.2	5.2	8.5 8.1	49.1 47.4	7.1	10.6	122.8 124.2	350.7 364.9	29.1 27.3	42.2 40.0	49.1 47.4
1984	213.4 256.7	27.3 22.9	40.0 45.1	5.3 1.7	9.1	47.4 46.6	9.5 6.3	14.0 13.6	124.2	402.0	31.6	40.0 45.1	47.4 46.6
1984 1985	256.7 302.0	22.9 25.6	44.5	2.0	9.2 9.1	46.3	6.3 3.2	13.1	122.5 118.2	445.7	31.6 29.8	44.5	46.3
1986 1987	310.9 319.3	21.4 20.6	44.0 41.8	6.3 6.5	8.9 6.8	45.1 46.4	2.4 2.2	12.4 13.1	119.0 116.7	451.2 456.7	26.6 26.0	44.0 41.8	45.1 46.4
1988	369.8	25.0	40.4	5.9	7.1	45.1	2.2	14.5	115.2	510.0	30.2	40.4	45.1
1989	363.8	25.9	44.0	6.5	7.2	44.1	1.8	14.4	118.0	507.8	31.6 33.5	44.0	44.1
1990	374.5	28.0	42.1	5.2	6.4	42.8	2.1	13.5	112.1	514.6	33.5	42.1	42.8
1991 1992	378.9 399.2	36.1 32.1	43.0 40.3	7.4 6.6	5.2 7.6	43.4 43.3	1.9 1.8	12.3 18.0	113.2 117.6	528.3 548.9	41.6 38.3	43.0 40.3	43.4 43.3
1993	399.9	36.3	42.9	5.1	6.8	43.7	2.5	14.1	115.1	551.3	42.4	42.9	44.3
1994	402.5	39.3	45.0	4.9	4.6	43.1	2.1	16.6	116.4	558.1	45.4 47.7	45.0	43.7
1995 1996	399.8 404.0	41.7 45.7	46.6 48.5	6.4 8.1	1.9 1.4	44.4 44.8	1.0 0.9	13.3 14.9	113.7 118.6	555.1 568.2	47.7 51.6	46.6 48.5	45.0 45.2
1997	386.0	53.7	46.8	9.4	1.1	44.5	1.2	17.0	119.9	559.6	59.3	46.8	44.9
1998 1999	409.2 411.3	45.8 53.4	41.8	7.3 9.9	1.2 2.3	44.8 44.9	0.3 0.4	17.4 22.0	112.8 123.4	567.8	51.4 59.0	41.8	45.2 45.3
2000	411.3 424.6	53.4 53.4	43.9 45.4	9.9 12.3	2.3	44.9 43.8	0.4	22.0 15.0	123.4 119.3	588.1 597.3	59.0 58.5	43.9 45.4	45.3 44.3
2001	420.0	57.3	51.6	19.6	4.3	43.5	0.4	17.8	137.2	614.5	62.6	51.6	44 1
2002	422.8	61.6	47.7	12.6	3.0	43.7	0.6	15.9	123.5	607.9	66.9	47.7	44.5
2003 2004	420.8 398.4	56.1 56.4	49.7 54.7	10.4 12.2	3.2 6.2	44.1 43.9	0.9 0.4	13.4 15.7	121.7 133.0	598.6 587.8	61.5 61.2	49.7 54.7	45.1 44.7
2005	431.1	49.6	57.0	12.5	3.7	43.4	1.6	18.4	136.5	617.3	55.0	57.0	45.3
2006	414.8	50.0	57.8	10.2	4.2	42.1	0.7	21.6	136.5	601.4	55.7	57.8	43.8
2007 2008	420.7 424.6	56.8 60.5	69.0 68.7	11.1 10.6	4.0 3.5	42.3 41.8	0.6 0.6	13.0 11.9	140.0 137.1	617.5 622.2	62.2 65.7	69.0 68.7	44.5 44.4
2009	423.3	51.9	55.5	10.9	3.9	42.6	0.4	14.5	127.7	602.9	57.6	55.8	45.4
2010	409.7	64.3	74.6	9.8	4.4	43.4	0.3	15.8	148.3	622.2	70.0	74.9	46.8
2011 2012	394.8 406.3	72.2 71.9	104.1 119.1	9.7 9.1	4.7 4.1	46.0 48.6	0.4 0.1	19.9 18.2	184.8 199.2	651.8 677.4	77.8 77.5	105.0 120.2	49.4 52.2
2013	393.2 399.2	82.3	131.4	12.8	5.0 4.5	50.5 52.7	(s) (s)	22.5 22.2	222.2 236.3	697.7	87.2 94.4	133.6 147.3	54.3 56.6
2014	399.2	89.1	145.0	11.9	4.5	52.7	(s)	22.2	236.3	724.6	94.4	147.3	56.6
2015 2016	408.1 394.6	100.9 105.6	105.2 82.3	10.7 10.2	5.7 4.7	52.5 49.6	(s) 0.0	19.6 _ 17.7	193.7 164.6	702.7 664.8	106.1 110.8	107.3 84.6	56.5 53.4
2017	397.9	112.1	99.4	11.6	4.3	48.9	0.0	R 10 5	164.6 R 183.8	R 693 8	118.2	101.8	52.7
2018	407.3	130.1	106.4	11.0	4.6	49.0	0.0	H 12 6	R 189.7 R 188.0	R 727.1	136.4	108.8	52.7
2019 2020	372.0 363.3	157.4 R 182.6	102.2 _ 86.8	15.0 11.9	4.4 4.5	49.1 43.6	0.0 0.0	R 17.3 R 16.5	R 188.0 R 163.3	R 717.5 R 709.2	163.0 R 188.2	104.3 88.8	53.0 47.0
2021	361.8	<sup>н</sup> 191.2	R 90.5	11.3	4.6	45.9	0.0	R 17.4	H 168.3	R 721.3	H 196.7	R 91.2	49.4
2022	369.3	193.2	92.6	11.2	4.6	45.1	0.0	17.3	169.6	732.2	198.6	93.4	48.6

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, North Dakota (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0 0.0	R 3.6 R 8.5	0.5	NA NA	NA NA	NA NA	NA NA	0.5 0.3	0.0 0.0	NA NA	NA NA	R 4.1 R 8.9	R -6.0 R -5.8	0.0	R 157.6
1903	0.0	Ros	0.3 0.4	NA NA	NA NA	NA NA	NA NA	0.4	0.0	NA NA	NA NA	B 10 0	R -30.0	(s) 1.0	R 167.1 R 187.6
1971	0.0	R 11 0	0.4	NA	NA	NA	NA	0.4	0.0	NA	NA	R 11.4	R -30.0 R -44.1	2.3	H 191 5
1972 1973	0.0 0.0	R 10.6 R 8.1	0.4 0.4	NA NA	NA NA	NA NA	NA NA	0.4 0.4	0.0 0.0	NA NA	NA NA	R 10.9 R 8.5	R -44.7 R -38.9 R -44.3 R -35.6 R -56.2 R -59.0	2.9 3.4	R 199.7 R 198.1 R 199.6
1974	0.0	ндз	0.4	NA NA	NA	NA	NA NA	0.4	0.0	NA	NA NA	R 9.7	R -44.3	4.6	R 199.6
1975	0.0	R 11.4	0.5	NA	NA	NA	NA	0.5	0.0	NA	NA	R 11.9	R -35.6	4.0	R 202.0
1976 1977	0.0 0.0	R 11.2 R 6.8	0.5 0.5 0.5	NA NA	NA NA	NA NA	NA NA	0.5 0.5	0.0 0.0	NA NA	NA NA	R 11.6 R 7.3	H -56.2	1.5 -1.5	R 202.0 R 206.1 R 206.9
1978	0.0	R 10.4	0.5	NA NA	NA NA	NA NA	NA NA	0.5	0.0	NA NA	NA NA	H 10 9	R -82 6	7.4	R 225 2
1979	0.0	R 10.4 R 9.3	0.6	NA	NA	NA	NA	0.6	0.0	NA	NA	ндд	R -82.6 R -101.6 R -117.2 R -123.6	11.2	R 225.2 R 233.0 R 217.5 R 231.3 R 228.3
1980	0.0	R 8.6 R 7.7	2.4 2.2 2.6	NA	NA	NA	NA	2.4 2.5	0.0	NA	NA	R 11.0 R 10.1	H -117.2	9.7	H 217.5
1981 1982	0.0 0.0	R 8.7	2.2	0.1 0.1	NA NA	NA NA	0.1 0.5	3.2	0.0 0.0	NA NA	NA NA	H 11 9		10.3 15.7	R 228 3
1983	0.0	R 8.1	2.4 3.0	(s)	NA	NA	0.9	3.4 4.2	0.0	NA	0.0	R 11.5 R 12.2	R -171.7 R -177.7 R -172.4	19.3	R 224.0 R 252.7 R 294.2
1984	0.0	R 8.1	3.0	(s) (s)	NA	NA	1.1	4.2	0.0	0.0	0.0	R 12.2	R -177.7	16.2	R 252.7
1985 1986	0.0 0.0	R 7.4 R 7.0	3.1 3.0 2.5	0.2 0.5	NA NA	NA NA	1.2 1.2	4.5 4.7	0.0 0.0	0.0 0.0	(s) (s) (s) 0.0	R 11.9	R -1/2.4	9.0 3.3	R 294.2
1987	0.0	R 7.9 R 6.8	2.5	0.5	NA	ŇĀ	1.3	4.4	0.0	0.0	(s)	R 12.7 P 11.2	R -169.5 R -174.5 R -220.1	4.7	R 297.8 R 298.0 R 302.1
1988	0.0	R 6.4	2.7	0.4	NA	NA	1.3	4.4	0.0	0.0	ò.ó	H 10 8	R -220.1	1.3	R 302.1
1989 1990	0.0 0.0	R 6.5 R 5.8	2.8 1.9	0.4 0.3	NA NA	NA NA	1.2 1.0	4.4 3.3	0.1 0.1	(s)	0.0 0.0	R 10.9	H -205.1	0.2 0.1	H 313.7
1990	0.0	R 6.0	2.0	0.3	NA NA	NA NA	1.0	3.3 3.7	0.1	(s) (s)	0.0	R 9.2 R 9.8	R -219.1	0.1	R 319.6
1992	0.0	R 5.8	2.1	0.5	NA	NA	1.1	3.7	0.1	(s)	0.0	R96	R -205.1 R -214.1 R -219.1 R -234.6	2.3	R 313.7 R 309.7 R 319.6 R 326.2
1993 1994	0.0	R 4.8 R 6.3	1.8 2.3	0.5 0.6	NA NA	NA NA	1.2 1.3	3.5 4.2	0.1 0.1	(s)	0.0 0.0	R 8.5 P 10.7	H -233.8	3.6 3.3	H 329.6
1994	0.0	Ra⊿	2.3	0.6	NA NA	NA NA	1.3	4.2 4.4	0.1	(s)	0.0	R 13.0	R -233.8 R -233.5 R -225.0 R -238.1 R -221.8	3.3 2.5	R 329.6 R 329.6 R 345.5 R 347.3 R 353.3 R 343.4 R 370.2 R 377.2
1996	0.0	R 10 8	2.6 2.4 2.3 2.2	0.4	NA	NA	1.3 0.5	3.4	0.2	(s)	0.0	R 1/1 2	R -238.1	2.5 3.0	R 347.3
1997	0.0	H 11.3	2.3	0.4	NA	NA	0.9	3.6	0.2	(s)	0.0	H 15 1	R -221.8	0.4	R 353.3
1998 1999	0.0 0.0	R 7.8	2.2	0.4 0.4	NA NA	NA NA	1.1 1.0	3.7 3.8	0.2	(s)	0.0 0.0	R 11.7 R 12.0	R -235.4 R -230.3 R -234.1	-0.7 -0.5	n 343.4 R 370.2
2000	0.0	R 8.9 R 7.2	2.3 2.5	0.5	NA	NA	1.2	4.3	0.2 0.2	(s)	0.0	R 12.9 P 11.7	R -234.1	-0.5 2.2	R 377.2
2001	0.0	R 4.5	3.5 2.6	0.6	(s)	NA	1.3	5.5 5.3	0.3	(s)	0.0	H 10.3	R -222.4 R -221.9	1.9	R 404.3 R 397.6
2002	0.0 0.0	H 5.4	2.6	0.8 0.9	(s)	NA NA	1.8 2.1	5.3 5.8	0.3	(s)	0.0	R 11.0	H -221.9	0.6 -1.4	H 397.6
2003 2004	0.0	R 5.4 R 5.9 R 5.3	2.7 3.3	0.9	(s) 0.1	NA NA	1.9	5.6 6.1	0.4 0.4	(S)	R 0.2 R 0.7	R 12.2 R 12.5	R -200.5	0.4	R 400.2
2005	0.0	H46	2.9 2.4 2.0	1.8	0.2	NA	1.8	6.8	0.5	(s)	Hna	H 12 6	R -212.8 R -200.5 R -230.0 R -206.0 R -208.7	5.8	R 397.6 R 400.2 R 405.7 R 411.5 R 433.3 R 437.1
2006	0.0	R 5.2 R 4.5	2.4	1.8	0.5 0.7	NA	1.8	6.5	0.5	(s)	R 1.3 R 2.1	R 13.5 R 19.9	H -206.0	2.6	H 411.5
2007 2008	0.0 0.0	R 4.3	2.0 1.9	2.2 2.6	0.7	NA NA	7.8 8.6	12.7 13.8	0.6 0.7	(S)	11 2.1 R 5.8	R 24.5		4.5 2.8	R 433.3
2009	0.0	R 5.0 R 7.0	2.0 2.1	2.8 3.4	0.7	NA	14.4	19.8 23.2	0.8	(s)	R 10.2	R 35 9	R -216.5	2.5 3.8	R 424.8 R 459.5
2010	0.0	R 7.0	2.1	3.4	0.5	NA	17.1	23.2	0.9	(s)	R 14.0	R 45.1	R -211.7	3.8	R 459.5
2011 2012	0.0 0.0	R 8.8 R 8.5	2.9 2.4	3.4 3.6	1.9 2.1	0.0 0.0	17.7 16.6	25.8 24.8	1.0 1.0	(s) (s)	7 17.9 R 19.0	R 53.5 R 52.2	R -202.7	4.4 4.6	n 507.1
2012	0.0	H 6.3	2.8	3.8	3.7	0.0	16.6	26.9	1.0	(s)	R 5.8 R 10.2 R 14.0 R 17.9 R 18.0 R 18.8	H 53.1	R -212.4 R -216.5 R -211.7 R -202.7 R -203.4 R -184.4 R -172.8	6.3	R 507.1 R 530.8 R 572.7 R 615.6
2014	0.0	R 8.6	29	3.9	3.7	0.0	16.7	27.2	1.0	(s)	R 21.2 R 22.2 R 27.9 R 38.8 R 36.6 R 38.3 R 46.5	R 58.0	R -172.8	5.8	R 615.6
2015	0.0	R 7.1 R 6.5	2.8 2.9 2.7	4.0	2.4 2.8	0.0	19.4 22.2	28.7 31.7	1.0	(s)	H 22.2	R 59.0 R 67.1		6.8	R 584.3 R 555.9
2016 2017	0.0 0.0	R 8.8	2.9 2.7	3.8 3.8	2.8	0.0 0.0	22.2 27.3	36.6	1.0 1.0	(S) (S)	∠7.9 R 38 8	R 85.1	R -183.0 R -190.7 R -190.1	7.0 7.3	H 595.6
2018	0.0	R 10 a	1.9	3.8	2.7	0.0	27.4	35.7	1.0	(s)	R 36.6	R 84.1	R -190.1	7.3 3.5	R 624 5
2019 2020	0.0	R 10.8 R 8.4	1.9 R 1.7	3.8	2.1 2.3	0.0	27.6 27.2	R 35.3 R 34.6	1.0	(s)	H 38.3	R 85.4 R 90.5	R -163.0 R -207.3	1.2 27.2	R 641.1 R 619.6
2020	0.0 0.0	R 6.8	11.7 R 1.7	3.4 3.6	2.3	0.0 0.0	27.2 27.4	R 34.6	1.0 1.0	(S) (S)	R 51.0	R 93.5	R -164.8	3.9	R 653 8
2021 2022	0.0	6.1	2.0	3.6	2.1	0.0	27.6	35.2	1.0	(s)	55.4	97.8	-176.0	16.6	670.6
		-							-	1-7					

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, North Dakota

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Yea	Thousand r short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	1,086	26	3,769	1,212	2,103	7,719	672	3,089	18,563	0					1,153			
1970	666	32		1,719	2,074	8,766	702	2,879	21,109	0					2,815			
1980	728	23		1,302	1,702	9,167	716	2,057	23,015	0					5,177			
1990 2000	6,535 6,853	32 57	7,162 7,709	1,426 3,354	1,178 413	8,151 8,512	326 78	2,168 2,375	20,411 22,443	0					7,014 9,413			
2005	6,727	53	9,728	3,370	646	8,716	256	2,909	25,625	0					10,840			
2006	6,775	53	9,887	2,766	735	8,455	105	3,406	25,355	0					11,245			
2007 2008	6,702 6,482	59 63	11,838 11,804	3,023 2,847	710 613	8,648 8,703	94 92	2,098 1,923	26,411 25,983	0					11,906 12,416			
2009	6,590	55	9,587	2,950	687	8,915	61	2,302	24,503	0					12,416			
2010	6,748	66	12,900	2,549	769	9,244	40	2,518	28,020	0					12,956			
2011	6,536	72		2,524	835	9,753	59	3,145	34,428	0					13,737			
2012	6,628	73	20,777	2,373	720	10,319	22	2,901	37,113	0					14,717			
2013 2014	6,221 6,527	81 85	23,114 25,500	3,337 3,104	876 789	10,731 11,194	2	3,542 3,502	41,603 44,092	0					16,033 18,240			
2015	6,691	91	18,569	2,789	1,005	11,177	1	3,141	36.682	0					18,129			
2016	6,563	91	14,637	2,666	834	10,564	0	R <sub>2,799</sub>	R 31,501	0					18,520			
2017	6,593	102	17,616	3,030	763	10,425	0	R 3,068	R 34,902	0					20,140			
2018 2019	6,658 5,863	116 133	18,811 18,041	2,870 3,915	818 776	10,437 10,485	0	R 2,932 R 2,735	R 35,869 R 35,953	0					20,670 21,559			
2019	5,960	R 160	15.359	3,111	776	9,310	0	R 2,609	R 31,174	0					21,819			
2021	5,888	168	R 15,758	2,929	806	9,789	0	R 2,765	R 32,047	0					22,863			
2022	5,914	174	16,146	2,927	812	9,630	0	2,754	32,269	0					25,393			
									Trillion	Btu								
1960	16.5	27.2	22.0	4.6	11.3	40.5	4.2	18.9	101.5	0.0	0.5	NA	NA	NA	3.9	149.7	R 7.9	R 157.6
1970	9.4	33.4	28.9	6.6	11.2	46.0	4.4	18.0	115.2	0.0	0.4			NA	9.6		R 19.7	R 187.6
1980	9.6	24.0		4.8	9.2	48.2	4.5	12.8	126.4	0.0	2.4			NA	17.7		R 37.6	R 217.5
1990 2000	88.2 97.5	33.5 58.5	41.7 44.9	5.2 12.3	6.4 2.3	42.8 44.3	2.1 0.5	13.5 15.0	111.7 119.3	0.0	1.9 2.5			(s) (s)	23.9 32.1	255.3 306.3	R 54.5 R 70.8	R 309.7 R 377.2
2005	97.0	55.0	56.6	12.5	3.7	45.3	1.6	18.4	138.0	0.0	2.9			(s)	37.0	327.0	R 78.7	R 405.7
2006	97.2	55.7	57.4	10.2	4.2	43.8	0.7	21.6	137.9	0.0	2.4			(s)	38.4	328.7	R 82.8	R 411.5
2007	96.2	62.2		11.1	4.0	44.5	0.6	13.0	141.6	0.0	2.0			(s)	40.6		R 86.9	H 433.3
2008 2009	93.5 95.5	65.7 57.6	68.2 55.4	10.6 10.9	3.5 3.9	44.4 45.4	0.6 0.4	11.9 14.5	139.2 130.4	0.0	1.9 2.0			(s)	42.4 43.2	347.4 338.1	R 89.7 R 86.3	R 437.1 R 424.4
2009	95.5	70.0	74.5	9.8	3.9 4.4	45.4	0.4	15.8	151.5	0.0	2.0		0.8	(s) (s)	43.2		R 81.6	R 459.2
2011	94.3	77.8		9.7	4.7	49.4	0.4	19.9	188.6	0.0	2.9			(s)	46.9		R 82.5	R 506.0
2012	95.3	77.5	119.8	9.1	4.1	52.2	0.1	18.2	203.6	0.0	2.4			(s)	50.2		R 88.8	R 529.8
2013	89.6	86.8	133.2	12.8	5.0	54.3	(s)	22.5	227.8	0.0	2.8			(s)	54.7	474.5	<sup>H</sup> 96.6	R 571.1
2014	94.6	92.3	147.0	11.9	4.5	56.6 56.5	(s)	22.2	242.2	0.0	2.9 2.8			(s)	62.2		R 107.4 R 108.1	R 614.2 R 584.0
2015 2016	96.9 95.0	99.1 99.0	107.0 84.3	10.7 10.2	5.7 4.7	53.4	(s) 0.0	19.6 17.7	199.6 170.4	0.0	2.8			(s) (s)	61.9 63.2	475.9 R 449.4	R 106.1	R 555.5
2017	95.5	110.7	101.4	11.6	4.3	52.7	0.0	R 19.5	R 189.6	0.0	2.7			(s)	68.7	R 490.0	R 105.1	R 595.1
2018	96.1	125.9	108.3	11.0	4.6	52.7	0.0	R 18.6	R 195.4	0.0	1.9	27.4	1.0	(s)	70.5	R 512 6	R 111.6	R 624.2
2019	84.8	147.2	103.9	15.0	4.4	53.0	0.0	R 17.3	R 193.6	0.0	1.9			(s)	73.6	R 525.0	R 116.2	R 641.2
2020 2021	86.2 84.9	R 171.7 R 180.3	88.4 R 90.8	11.9 11.3	4.5 4.6	47.0 49.4	0.0	R 16.5 R 17.4	R 168.4 R 173.4	0.0	R 1.7 R 1.7	27.2 27.4		(s) (s)	74.4 78.0	R 526.0 R 542.4	R 93.2 R 111.4	R 619.2 R 653.7
2021	85.6	184.1	93.1	11.2	4.6	48.6	0.0	17.4	174.8	0.0	2.0			(s)	86.6		113.2	670.5
	30.0						3.0	0			2.0			(0)	30.0	237.0		

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

j Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, North Dakota

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	328	4	874	774	860	2,508				728			
1965	328 177	7	1,269	746	40	2.055				911			
1970	80	8	1,103	1,261	190	2,555 1,958				1,399			
1975	46	10	776	1,161	21	1,958				1,901			
1980	30	10	1,173	502	. 5	1,681				2,456			
1985 1990	43 27	10	1,162	166 642	14 5	1,342 1,628				3,012			
1990	14	11	981 717	762	5 4	1,626				2,954 3,384			
2000	15	11	564	1,727	3	2,294				3,390			
2005	21	11	460	1,825	7	2,292				3,796			
2006	9	10	462	1,386	3	1,851				3.853			
2006 2007	26	11	462 470	1,408	2	1,880				4,067			
2008	0	12	670	1,652	1	2,323				4,259			
2009	0	12 11	319 255	1,583 1,508	3	1,905 1,767				4,449			
2010 2011	0	11	255 193	1,508 1,655	3 2	1,767 1,850				4,393 4,552			
2011	0	10	140	1,336	1	1,476				4,552 4,485			
2012	n n	12	171	1,494	1	1,666				5,039			
2014	ŏ	13	155	1.676	1	1.832				5.358			
2015	ŏ	11	155 129	1,676 1,422	i	1,832 1,552				5,358 4,863			
2016	0	10	132	1.352	3	1,487				4,741			
2017	0	11	137	1,352	1	1,489				4,848			
2018	0	13	129	1,656		1,786				5,133			
2019	0	13 12	142 150	2,139	1	2,283				5,125			
2020 2021	0	12	146	1,196 1,619	2	1,347 1,766				5,047 4,888			
2022	0	14	164	1,633	1	1,798				5,272			
		• • • • • • • • • • • • • • • • • • • •		1,000	·	1,700	Trillion Btu			0,272			
1960	5.1	4.0	5.1	3.0	4.9	12.9	0.5	NA	NA	2.5	24.9	R 5.0	R 30.0
1965 1970	2.7 1.2	6.6 8.4	7.4 6.4	2.9	0.2 1.1	10.5 12.3	0.3 0.4	NA NA	NA NA	3.1 4.8	23.2 27.1	R 6.1 R 9.8	R 29.4 R 36.9
1970	0.6	10.2	4.5	2.9 4.8 4.5	0.1	9.1	0.4	NA NA	NA NA	4.6 6.5	26.9	R 13.2	
1980	0.4	10.1	6.8	1.9	(s)	8.8	2.4	NA NA	NA	8.4	30.0	H 17 0	R 40.7 R 47.8 R 51.3 R 50.7 R 54.9 R 58.3
1985	0.6	11.0	6.8	0.6	0.1	7.5	2.4 3.1	NA	NA NA	10.3	30.4	R 20.9 R 22.9 R 25.0 R 25.5 R 27.6	R 51.3
1990	0.4	9.5	5.7 4.2	2.5		8.2	1.7	0.1	(s) (s)	10.1	27.8	R 22.9	R 50.7
1995 2000	0.2	11.8	4.2	2.9	(s) (s)	7.1 9.9	1.5	0.1		11.5	29.9 32.8	H 25.0	H 54.9
2000	0.2	11.3	3.3	6.6	(s)	9.9	1.2	0.1	(s)	11.6	32.8	H 25.5	H 58.3
2005	0.4	11.1	2.7	7.0	(s)	9.7	0.4	0.2	(s)	13.0	33.0	n 27.6	R 60.5
2006 2007	0.2 0.4	10.1 11.2	2.7 2.7	5.3 5.4	(s) (s)	8.0 8.1	0.3 0.4	0.3 0.3	(s) (s)	13.1 13.9	30.3 32.8	R 28.4 R 29.7	R 58.7 R 62.5
2007	0.4	12.0	3.9	6.3	(s)	10.2	0.4	0.4	(8)	14.5	36.1	H 30 8	R 66 Q
2009	0.0	12.2	1.8	6.1	(s)	7.9	0.5	0.5	(s)	15.2	34.5	R 30.4	R 66.9 R 64.8 R 60.7
2010	0.0	11.1	1.5	5.8	(s)	7.3	0.5	0.5	(s)	15.0	33.0	R 27.7	R 60.7
2011	0.0	11.7	1.1	6.4	(s)	7.5	0.5 0.4	0.5 0.5	(s)	15.5	34.5 31.2	R 27.3	R 61.9
2012	0.0	10.2	0.8	5.1	(s)	7.3 7.5 5.9	0.4	0.5	(s)	15.3	31.2	R 30.4 R 27.7 R 27.3 R 27.1 R 30.4	R 61.9 R 58.3 R 67.2 R 70.6
2013	0.0	12.9	1.0	5.7	(s)	6.7	0.5	0.5	(s)	17.2	36.8	H 30.4	H 67.2
2014	0.0	13.6	0.9	6.4	(s)	7.3	0.5	0.5	(s)	18.3	39.1	n 31 6	70.6
2015	0.0 0.0	11.5 10.9	0.7 0.8	5.5	(s)	6.2 6.0	0.5	0.5	(s)	16.6 16.2	34.4	R 27.0	R 60.6
2016 2017	0.0	11.9	0.8	5.2 5.2	(8)	6.0	0.6 0.6	0.5 0.5	(8)	16.5	33.4 34.5	R 29.0 R 27.2 R 25.3	R 63.4 R 60.6 R 59.8
2018	0.0	13.7	0.7	6.4	(s)	7.1	0.6	0.5	(s)	17.5	38.3	n 27.7	H 66 0
2019	0.0	14.5	0.8	8.2	(s)	9.0	0.6	0.5	(s)	17.5	41.2	R 27 6	R 68.8
2020	0.0	12.8	0.9	4.6 6.2	(s)	5.5 7.1	R∩⊿	0.5 0.5	(s)	17.2	н 35 6	R 21.6 R 23.8	R 68.8 R 57.2 R 59.7
2021	0.0	11.9	0.8	6.2	(s)	7.1	H 0.4	0.5	(s)	16.7	R 35.8	H 23.8	<sup>H</sup> 59.7 63.9
2022	0.0	14.8	0.9	6.3	(s)	7.2	0.7	0.5	(s)	18.0	40.4	23.5	63.9

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, North Dakota

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thouse	and barrels	-		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal f	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
										waste ~	Geottieriliai			Liiu use 3	103363	Total *
1960 1965	228 133	3 5	198 288	152 146	0 0	32 179	73 209	455 822	NA NA			NA NA	304 443		 	 
1970 1975	63 107	8 12	250 176	247 228	0	151 95	104 493	752 992	NA NA			NA NA	696 805			
1980	113	11	642	99	Ŏ	73	400	1,214	NA			NA	1,145		==	==
1985 1990	154 108	10 10	502 175	33 126	(s) (s)	69 70	64 22	668 394	NA 0			NA 0	2,026 2,300			
1995	96	12	148	149	(7	10	19	328	0			Ö	2,728			
2000 2005	119 239	11 10	232 141	339 343	3	10 10	12 46	594 543	0			0	2,992 3,994			
2006 2007	94 236	9 10	149 160	329 365	3	20 17	10 26	513 570	0			0	4,127 4,215			
2008	104	11	229	488	į	17	12	746	Ö			ő	4,460			
2009 2010	97 90	11 10	198 421	418 276	1 2	19 20	1 2	637 721	0			0	4,558 4,714			
2011	89 73	11	1,058 899	403	1	13 20	20	1,494 1,398	0			(s)	4,866			
2012 2013	88	10 13	1,125	463 834	(s) 1	21	15 2	1,983	0			(S)	5,109 5,685			
2014 2015	74 72	14 12	1,208 306	525 597	1	19 97	2	1,754 1,001	0			(s) (s)	5,403 6,279			
2016	58	12	218	621		99	Ó	938	0			(s)	6,346			
2017 2018	54 58	13 14	326 315	627 352	(s) (s)	101 102	0	1,055 770	0			(s) (s)	6,530 6,836			
2019	53	15	232	565	(s)	103	Ö	900	Ö			(s)	7,035			
2020 2021	30 16	15 14	243 567	1,144 607	(s) (s)	103 104	0	1,490 R 1,278	0			(s) 1	6,642 6,808			
2022	24	17	630	438	(s)	107	0	1,176	0			1	8,392			
								Tril	lion Btu							
1960	3.5	2.9	1.2	0.6	0.0	0.2	0.5	2.4	NA	(s)	NA	NA	1.0	9.9	R 2.1 R 3.0	R 12.0
1965 1970	2.1 0.9 1.5	5.0 8.6	1.7 1.5	0.6 1.0	0.0 0.0	0.9 0.8	1.3 0.7	4.5 3.9 5.5	NA NA	(s) (s)	NA NA	NA NA	1.5 2.4	13.0 15.7 22.2	R⊿q	R 16.0 R 20.6 R 27.8
1975 1980	1.5 1.5	12.4 11.6	1.0 3.7	0.9 0.4	0.0 0.0	0.5 0.4	3.1 2.5	5.5 7.0	NA NA	(s) 0.1	NA NA	NA NA	2.4 2.7 3.9	22.2 24.0	R 5.6 R 8.3	H 27.8 H 32.3
1985	2.0	10.7	2.9	0.1	(s)	0.4	0.4	3.8	NA	0.1	NA	NA	6.9	21.7	R 14.0 R 17.9	R 25.7
1990 1995	1.5 1.5	10.6 12.2	1.0 0.9	0.5 0.6	(s) (s)	0.4 0.1	0.1 0.1	2.0 1.6	0.0 0.0	0.2 0.2	(s) 0.1	0.0 0.0	7.8 9.3	19.8 22.5	H 20 1	R 37.6 R 42.6
2000	1.7	11.4	1.3	1.3	(s)	0.1	0.1 0.3	2.8	0.0	0.2 0.1	0.1	0.0 0.0	10.2	24.9	R 22.5 R 29.0	R 47.4 R 58.4
2005 2006	4.3 1.7	10.3 9.8	0.8 0.9	1.3 1.3	(S) (S)	0.1 0.1	0.3	2.5 2.3	0.0 0.0	0.1	0.2 0.3	0.0	13.6 14.1	29.4 26.6	R 30 4	n 56 9
2007 2008	3.8 1.8	10.8 11.6	0.9 1.3	1.4 1.9	(s)	0.1 0.1	0.2 0.1	2.6 3.4	0.0 0.0	0.1 0.1	0.3 0.3	0.0 0.0	14.4 15.2	30.4 31.0	R 30.8 R 32.2	R 61.2 R 63.2
2009	1.7	11.6	1.1	1.6	(s)	0.1	(s)	2.9	0.0	0.1	0.3	0.0	15.6	30.5	H 31.1	R 61 6
2010 2011	1.6 1.5	10.9 11.8	2.4 6.1	1.1 1.5	(s)	0.1 0.1	(s) 0.1	3.6 7.8	0.0 0.0	0.1 0.1	0.4 0.5	0.0 (s)	16.1 16.6	31.3 37.1	R 29.7 R 29.2	R 61.0 R 66.3
2012	1.5 1.3	11.0	5.2	1.8	(s)	0.1	0.1	7.2	0.0	0.1	0.4	(s)	17.4	36.2	R 30.8 R 34.3	H 67 N
2013 2014	1.5 1.3 1.2	14.1 15.2	6.5 7.0	3.2 2.0	(s) (s)	0.1 0.1	(s) (s)	9.8 9.1	0.0 0.0	0.1 0.1	0.4 0.4	(s) (s)	19.4 18.4	44.2 43.2	H 31 8	R 78.4 R 75.0
2015 2016	1.2 1.0	13.4 12.8	1.8 1.3	2.3 2.4	(s) (s)	0.5 0.5	(s) 0.0	4.6 4.1	0.0 0.0	0.1 0.1	0.4 0.4	(s) (s)	21.4 21.7	40.1 39.2	R 37.4 R 36.4	R 77.5 R 75.6
2017	0.9	14.0	1.9	2.4	(s)	0.5	0.0	4.8	0.0	0.1	0.4	(s)	22.3	41.3	R 34 1	R 75.4
2018 2019	1.0 0.9	15.6 17.0	1.8 1.3	1.4 2.2	(s) (s)	0.5 0.5	0.0 0.0	3.7 4.0	0.0 0.0	0.1 0.1	0.4 0.4	(s) (s)	23.3 24.0	42.9 45.5	R 36.9 R 37.9	R 79.8 R 83.4
2020	0.5 0.3	15.6	1.4	4.4	(s)	0.5	0.0	6.3	0.0	0.1	0.4	(s)	22.7	R 44.6	R 37.9 R 28.4	n 73.0
2021 2022	0.3	14.8 18.1	3.3 3.6	2.3 1.7	(s) (s)	0.5 0.5	0.0 0.0	6.1 5.9	0.0 0.0	0.1 0.1	0.4 0.4	(s) (s)	23.2 28.6	44.1 52.5	R 33.2 37.4	R 77.2 90.0
					, ,							. ,				

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, North Dakota

					Petro	leum			Unidad	Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use f,k	system energy losses	Total f,k
1960	521 444	20	2,104	257	2,927	530	2,005 1,702	7,823	Q				NA	. 121 241			
1965 1970	444 523	21 16	2,696 2,174	240 206	2,533 2,315	632 558	1,702 2,456	7,804 7,710	0				NA NA	. 241 720			
1975	570	14	1,613	189	2,193	577	2,430	6,792	0	==			NA NA			==	
1980	585	2	2,460	690	1,540	315	1,836	6,842	0				NA	1,576			
1985 1990	5,407 6,400	7 11	2,890 3,016	340 644	1,080 799	440 304	1,896 1,979	6,646 6,742	0				NA 0				
1995	7,447	18	3,027	830	685	145	1,923	6,610	ő				0				
2000	6,719	24	2,756	1,283	443	66	2,179	6,726	0				0				
2005 2006	6,467	19 21	3,747 3,787	1,180 1,031	626 676	210 95	2,700 3,227	8,463 8,815	0				0	3,050 3,266			
2007	6,671 6,440	25	3,871	1,230	577	68	1,924	7,670	0				0	3,624			
2008	6,379	29 23	5,018	674	445	80	1.758	7,976	ő				ŏ	3,697			
2009	6,493	23	3,942	894	457	60	2,152	7,506	0				0	3,641			
2010 2011	6,657 6,447	32 37	6,091 8,660	762 463	296 314	38 39	2,363 2,967	9,550 12,444	0				0	3,850 4,319			
2012	6,555	37	9,609	573	280	7	2,735	13,204	ŏ				ŏ	5,124			
2013	6,133	41	11,118	1,006	297	0	3,370	15,792	0				0	5,309			
2014 2015	6,452 6,619	43 54	12,363 7,875	900 766	259 402	1	3,295 2,941	16,818 11,983	0				0	7,479 6,988			
2016	6,505	55	5,656	690	368	Ö	R 2.626	R 9 340	ŏ				ő	7,433			
2017	6,540	60	7,638	1,049	370	0	R 2,901	R 11,957	0				0	8,762			
2018 2019	6,599 5,810	69 76	7,992 7.677	857 1,201	363 354	0	R 2,760 R 2,568	R 11,972 R 11,800	0				0	8,700 9.399			
2020	5,930	R 106	6,446	761	355	Ö	R 2 463	R 10 026	ő				0	10,131			
2021	5,872	108	7,292	696	340	0	R 2,401	H 10,729	0				0	11,166			
2022	5,891	108	7,370	849	356	0	2,372	10,947	0				0	11,729			
									Trillion Bt								
1960	7.7	20.3 20.9	12.3 15.7	1.0	15.4 13.3	3.3	12.7 10.7	44.7 44.6	0.0			NA NA	NA NA		73.1	R 0.8 R 1.6	R 74.0 R 74.4
1965 1970	6.5 7.2	16.3	12.7	0.9 0.8	12.2	4.0 3.5	15.6	44.6	0.0	0.0	NA NA	NA NA	NA NA		72.8 70.7	H E O	H 75 Q
1975	7.4 7.7	14.0	9.4	0.7	11.5	3.6	14.0	39.2	0.0	0.0	NA	NA	NA	3.4	64.1	R 7.0	R 71.1
1980 1985		2.1	14.3 16.8	2.4 1.2	8.1	2.0	11.5	38.3 38.6	0.0			NA	NA NA		53.5	R 11.4 R 13.8	R 64.9 P 138.5
1985	71.2 86.3	7.3 11.7	17.6	2.2	5.7 4.2	2.8 1.9	12.2 12.4	38.3	0.0	0.0 0.1	1.2 1.0	NA 0.0	0.0		124.7 142.4	R 13.7	R 156.1
1995	99.4	18.7	17.6	2.9	3.6	0.9	12.1	37.1	0.0	0.9	1.3	0.0	0.0	6.0	162.1	H 13 1	H 175.2
2000 2005	95.6 92.3	24.7	16.0	4.4	2.3	0.4 1.3	13.8 17.2	37.0	0.0	1.2	1.2	0.0	0.0		168.0 172.5	R 22.8 R 22.1	R 190.8 R 194.7
2005	92.3 95.4	19.8 22.2	21.8 22.0	4.0 3.5	3.3 3.5	0.6	20.6	47.6 50.2	0.0 0.0	2.5 2.0	1.8 1.8	0.0 0.0	0.0		180.3	R 24.0	R 204.4
2007	92.0	26.3	22.4	4.2	3.0	0.4	12.0	41.9	0.0	1.6	7.8	0.0	0.0	12.4	179.5	R 24.0 R 26.4	R 206.0
2008	91.7	30.2	29.0	2.3	2.3	0.5	10.9	45.0	0.0	1.5	8.6	0.0	0.0		187.1	R 26.7 R 24.8 R 24.2	H 213.8
2009 2010	93.9 95.8	24.5 33.6	22.8 35.2	3.0 2.9	2.3 1.5	0.4 0.2	13.6 14.9	42.0 54.7	0.0	1.5 1.6	14.4 17.1	0.0 0.0	0.0	12.4 13.1	186.3 212.9	R 24.8	R 211.1 R 237.1
2011	92.7	39.7	50.0	1.8	1.6	0.2	18.9	72.4	0.0	2.4	17.7	0.0	0.0		236.5	R 25 9	R 262.5
2012	94.1	39.6	55.4	2.2	1.4	(s) 0.0	17.2	76.3	0.0	2.0		0.0	0.0		242.8	R 30.9	R 273.7
2013 2014	88.1 93.3	43.8 46.7	64.1 71.2	3.9 3.5	1.5 1.3	0.0	21.4 21.0	90.9 97.0	0.0 0.0	2.2 2.3	16.6 16.7	0.0	0.0		257.3 278.9	R 32.0 R 44.0	R 289.2 R 323.0
2015	95.7	58.7	45.4	2.9	2.0	(s) (s) 0.0	18.4	68.8	0.0	2.2	19.4	0.0	0.0	23.8	265.9	R 41.7	R 307.6
2016	94.0	59.5	32.6	2.6	1.9	0.0	16.7	53.8	0.0	2.2	22.2	0.0	0.0	25.4	254.6	H 42 6	H 297 2
2017 2018	94.6 95.1	64.5 74.3	44.0 46.0	4.0 3.3	1.9 1.8	0.0 0.0	R 18.5 R 17.6	R 68.4 R 68.8	0.0 0.0	2.0 1.2	27.3 27.4	0.0 0.0	0.0		R 283.6 R 293.4	R 45.7 R 47.0	R 329.3 R 340.3
2018	83.9	83.5	46.0	4.6	1.8	0.0	H 16.3	<sup>rt</sup> 66.9	0.0	1.2		0.0	0.0		H 292 6	H 50 6	R 343.2
2020	85.7	R 113 8	37.1	2.9	1.8	0.0	R 15 7	H 57 5	0.0	1.2	27.2	0.0	0.0	34.6	R 317 3	R 43.3	R 360.6
2021 2022	84.6 85.2	R 115.6 114.3	42.0 42.5	2.7 3.3	1.7 1.8	0.0 0.0	R 15.4 15.2	R 61.8 62.7	0.0 0.0	1.2 1.1	27.4 27.6	0.0	0.0		R 326.0 328.4	R 54.4 52.3	R 380.4 380.7
2022	03.2	114.3	42.3	3.3	1.0	0.0	10.2	02.7	0.0	1,1	27.0	0.0	0.0	40.0	320.4	52.5	300.7

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, North Dakota

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
1960	9	(s)	66	592	29	2,103	158	4,760	69	7,778	0			
1965	1	(s)	165	916	29 22	2 069	158 147	5 499	25	8 843	0			
1970 1975	1 (s)	(S)	95 85 64	1,441 1,880	3 2	2,074 1,855 1,702	138 137 151	6,300 7,756 7,553	41 0	10,092 11,715	0			
1980	(s) 0	(s)		1,880 3,795	12	1,702	151	7,553	Ö	13 278	Ö			
1985 1990	0	1	4 28	3,009 2,990	11 14	1,682 1,178 333	138 155 148	7,673 7,282 7,955	0	12,517 11,647 12,528	0			
1995	ŏ	5	28 65	4,014	13	333	148	7,955	Ö	12,528	ő			
2000	0	11	34 66 43 37	4,158	5	413 646 735 710	158	8.060	0	12 829	0			
2005 2006	0	13 13	43	5,380 5,489	23 19 19	735	133 130 134	8,080 7,759 8,054	0	14,327 14,176	0			
2007	Ö	13	37	7,338	19	710	134	8,054	0	16 291	0			
2008 2009	0	11 9	38 34 43	5,887 5,128	33 54	613 687	125 112 108	8,241 8,439 8,928	0	14,938 14,455 15,982	0			
2010	Ö	14	43	6,133	2	769	108	8,928	Ö	15,982	0			
2011 2012	0	14 16	48 25 21	8,201	2	835 720	128 139 150 163	9,427 10,019	0	18,641 21,035 22,162	0			
2013	Ö	15	21	10,130 10,700	3	876	150	10,412	Ō	22,162	0			
2014	0	15	42	11,774	3	789	163	10,916	0	23 688	0			
2015 2016	0	14 14	40 39	10,260 8,631	4	1,005 834	158 129 125	10,678 10,097	0	22,145 R 19,735 R 20,401	0			
2017	Ö	19	41	9,516	2	763	125	9,954	0	R 20,401	Ō			
2018 2019	0	21 29	47 48	10,376 9 991	5 9	818 776	R 124 R 117	9,971 10,028	0	R 21,341	0			
2020	ŏ	27	44 47	9,991 8,521 R 7,754	10	818 776 786 806	R 99 R 96	8,851 9,345	0	R 21,341 R 20,970 R 18,312	Ö			
2021 2022	0	35 35	47 49	<sup>H</sup> 7,754 7,982	7 6	806 812	<sup>H</sup> 96 103	9,345 9,167	0	R 18,273 18,348	0			
				7,002		0.2		Ilion Btu		10,010				
1960	0.1	(s)	0.3	3.5 5.3 8.4	0.1	11.3	1.0	25.0	0.4	41.6	0.0	41.7	0.0	41.7 47.3
1965 1970	(s)	(s)	0.8 0.5	5.3	0.1 (s)	11.1 11.2	0.9 0.8	28.9 33.1	0.2 0.3	47.3 54.2	0.0 0.0	47.3 54.3	0.0 0.0	47.3 54.3
1975 1980	(s) (s) (s) 0.0	(s) 0.1 0.2	0.4 0.3	11.0	(s)	10.0 9.2	0.8	40.7	0.0	63.0 72.3	0.0	63.1	0.0	63.1 72.5
1980 1985	0.0 0.0	0.2 0.7	0.3	22.1 17.5	(s) (s)	9.2 9.1	0.9 0.8	39.7 40.3	0.0 0.0	72.3 67.8	0.0 0.0	72.5 68.8	0.0 0.0	72.5 68.8
1985	0.0	1.8	(s) 0.1 0.3 0.2	17.4	0.1	6.4	0.8	38.3	0.0	63.2	0.0	65.3	0.0	65.3
1990 1995	0.0 0.0	5.0	0.3	23.4	0.1	6.4 1.9	0.9 0.9	38.3 41.4	0.0	63.2 67.9	0.0	65.3 72.9	0.0	65.3 72.9 80.6
2000	0.0	11.0 13.8	0.2	24.2 31.3	(s) 0.1	2.3	1.0	41.9 41.9	0.0 0.0	69.6 78.1	0.0 0.0	80.6 92.1	0.0	80.6 92.1
2005 2006	0.0 0.0	13.8 13.6	0.3 0.2 0.2 0.2	31.3 31.9	0.1	3.7 4.2	0.8 0.8	40.2	0.0	78.1 77.3 89.0 80.7	0.0	92.1 91.5	0.0 0.0	92.1 91.5
2007 2008	0.0 0.0	13.9 12.0	0.2	42.4 34.0	0.1 0.1	4.0 3.5	0.8 0.8	41.4 42.1	0.0 0.0	89.0 80.7	0.0 0.0	103.6 93.3	0.0 0.0	103.6 93.3
2009 2010	0.0 0.0 0.0	9.4	0.2 0.2 0.2	29.6	0.1	3.9 4.4	0.7 0.7	43.0 45.2	0.0 0.0 0.0	77.5 85.9	0.0	86.9	0.0 0.0 0.0	86.9 100.4
2010	0.0	14.5	0.2	29.6 35.4 47.3	(s)	4.4	0.7	45.2	0.0	85.9	0.0	100.4	0.0	100.4
2011 2012	0.0	14.6 16.6	0.2 0.1	47.3 58.4	(s) (s)	4.7 4.1	0.8 0.8	47.7 50.7	0.0 0.0	100.8 114.2	0.0 0.0	115.4 130.8	0.0 0.0	115.4 130.8
2013	0.0 0.0	16.6 16.0	0.1 0.1	58.4 61.7	(s)	4.1 5.0	0.8 0.9	52.7	0.0	120.3	0.0	130.8 136.3	0.0 0.0	130.8 136.3
2014 2015	0.0 0.0	16.8 15.5	0.2 0.2	67.9 59.1	(s) (s)	4.5 5.7	1.0 1.0	55.2 54.0	0.0 0.0	128.8 120.0	0.0 0.0	145.5 135.5	0.0 0.0	145.5 135.5
2016	0.0	15.7 20.2	0.2 0.2 0.2	49.7 54.8	(s)	4.7	0.8	51.0	0.0	106.5	0.0	122.1 130.6	0.0 0.0 0.0	122.1 130.6
2017 2018	0.0 0.0	20.2 22.3	0.2	54.8 59.8	(s)	4.3 4.6	0.8 R 0.8	50.3 50.4	0.0 0.0	110.4 115.8	0.0 0.0	130.6 R 138.1	0.0 0.0	130.6 R 138.1
2019	0.0	22.3 32.2	0.2 0.2 0.2	57.5	(S) (S)	4.6 4.4	0.7	50.7	0.0	113.6	0.0	145.8	0.0	145.8
2019 2020	0.0 0.0	32.2 29.4	0.2	57.5 49.0 R 44.7	(s)	4.4 4.5	0.6	44.7	0.0	113.6 99.1 R 98.5	0.0	145.8 128.5	0.0 0.0	145.8 128.5
2021 2022	0.0 0.0	38.0 36.9	0.2 0.2	H 44.7 46.0	(s) (s)	4.6 4.6	0.6 0.6	47.2 46.3	0.0 0.0	H 98.5 99.0	0.0 0.0	R 136.4 136.0	0.0 0.0	R 136.4 136.0
	0.0	00.0	V.L	-10.0	(0)	7.0	0.0	-10.0	0.0	00.0	0.0	100.0	0.0	100.0

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, North Dakota

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	1,014	(s)	4	0	15	20	0	1,060		0	NA	NA	0	
1965 1970 1975 1980	964	(s)	i	ŏ	2	20 3 32 20 68	ŏ	2 497		ŏ	NA	NA	-1	
1970	3,519 4,377	(s)	7	0	25	32	0	2,815 3,345 2,513		0	NA	NA	293 1,166 2,850 2,645	
1975	4,377	(s)	2	Ō	18	20	Ō	3,345		Ō	NA	NA	1,166	
1980	11,618 17,354 21,579 22,680 25,048 25,317 24,298 24,639 24,833 24,593 23,113	(s)	68 74 57 99 95 70	0	0	68	0	2,513		0	NA	NA	2,850	
1985	17,354	(s)	74	0	0	74	0	2,173		0	0	(s)	2,645	
1990 1995 2000 2005	21,5/9	(s)	5/	0	0	57	0	1,711 2,457 2,123 1,342 1,521 1,305 1,253 1,475 2,042		0	0	0	20 731 647 1,702	
1995	22,680	(s)	99	0	0	99 95 70	0	2,457		0	0	0	731	
2000	25,046 25,217	(s)	95 70	0	0	90 70	0	2,123		0	0	220	1 702	
2003	24 208	(5)	70	0	0	70	0	1,542		0	0	360	756	
2007	24,230	(s)	96	0	0	78 96	0	1,305		0	0	369 621	1 332	
2006 2007 2008 2009 2010	24.893	(s)	78 96 81	Ŏ	Ŏ	81	ő	1,253		Õ	Ö	1 603	756 1,332 808	
2009	24.593	(s)	80	Ö	Ō	80	Ö	1,475		Ō	Ö	2.998	740	
2010	23,113	(s)	80 69	Ö	Ö	80 69	Ö	2,042		Ō	Ö	4,096	1 120	
2011	22,056	(s)	81	0	0	81	0	2,580		0	0	5,236	1,292	
2012	22,795	(s)	64	0	0	64	0	2,477		0	0	5,275	1,341	
2012 2013 2014 2015 2016	22,056 22,795 22,289 22,289	(s) 2	64 64 52 49 59 69 74 68	0	0	64 64 52	0	1,852 2,531		0	0	2,998 4,096 5,236 5,275 5,519 6,202	1,292 1,341 1,833 1,711	
2014	22,289	2 7	52	0	0	52	0	2,531		0	0	6,202	1,/11	
2015	22,786 21,807 22,210 23,102 21,329		49	0	0	49	0	2,094 1,912 2,582		0	0	6,506 8,172 11,359 10,730 11,213	1,982	
2016	21,807	11	59	0	0	59 69	0	1,912		0	U	8,172	2,066 2,135	
2017	22,210	10	74	0	0	7/	0	2,302		0	0	10,339	1,014	
2018 2019	21,329	10 15	68	0	0	74 68	0	3,180 3,179		0	0	11,730	360	
2020	20 480	16	62	ŏ	ŏ	62	ő	2 450		0	ő	13 633	7 976	
2021 2022	20.470	16 14	62 68 61	ŏ	ŏ	68 61	Ŏ	1,989 1,791		Ŏ	Ŏ	14.935	1,131 4,880	
2022	20,480 20,470 21,065	14	61	0	0	61	Ö	1,791		0	0	13,633 14,935 16,250	4,880	
						,	Trillion Btu							
1960 1965 1970 1975 1980	14.0 13.4 48.1 58.4	0.1	(s) (s)	0.0 0.0 0.0 0.0	0.1	0.1	0.0	R 3.6 R 9.6 R 11.4 R 8.7.4 R 7.4 R 7.8 R 7.4 R 7.5 R 4.5 R 7.5 R 4.5 R 7.0 R 7.8 R 8.5 R 6.6 R 7.1 R 6.8 R 7.1 R 10.9 R 1	0.0	0.0 0.0 0.0	NA	NA	0.0	R 17.9 R 22.0 R 59.3 R 74.1 R 172.5 R 245.1 R 292.6 R 310.1 R 337.1
1965	13.4	(s)	(s)	0.0	(s) 0.2	(s) 0.2	0.0	H 8.5	0.0	0.0	NA	NA	(s) 1.0 4.0 9.7 9.0 0.1 2.5 2.2 5.8 2.6 4.5 2.8 2.5 3.8 4.4 4.6 6.3	H 22.0
1970	48.1	0.4	(s)	0.0	0.2	0.2	0.0	H 9.6	0.0	0.0	NA	NA	1.0	H 59.3
19/5	58.4	0.2	(s) (s) 0.4 0.4	0.0	0.1	0.1	0.0	n 11.4	0.0	0.0	NA	NA	4.0	n /4.1
1980	153.8 228.2	(s)	0.4	0.0 0.0	0.0 0.0	0.4 0.4	0.0 0.0	H 8.6	0.0 0.0	0.0 0.0	NA 0.0	NA (s) 0.0 0.0 0.0 8 0.8 R 1.3 R 2.1 R 5.8 R 10.2 R 14.0 R 17.9 R 18.0 R 18.8	9.7	11/2.5 B 045 4
1900	220.2	(s)	0.4	0.0	0.0	0.4	0.0	7.4 R = 0	0.0	0.0	0.0	(S)	9.0	H 243.1
1995	298.6	(3)	0.5	0.0	0.0 0.0	0.5	0.0	R 8 4	0.0	0.0	0.0	0.0	2.5	R 310 1
1990 1995 2000	286.3 298.6 327.1	0.0	0.3 0.6 0.6	0.0 0.0	0.0	0.3 0.6 0.6	0.0 0.0	R 7 2	0.0 0.0	0.0 0.0 0.0	0.0	0.0	2.0	R 337 1
2005 2006 2007	334.1		0.4	0.0 0.0	0.0	0.4 0.5 0.6	0.0	R 4.6	0.0 0.0 0.0	0.0	0.0	R 0.8	5.8	R 345.6 R 327.1 R 336.2 R 344.4
2006	334.1 317.6	(s) (s)	0.4 0.5 0.6 0.5 0.5 0.4	0.0	0.0	0.5	0.0 0.0	R 5.2	0.0	0.0 0.0	0.0	R 1.3	2.6	R 327.1
2007	324.5 331.1 327.7 312.3	(s)	0.6	0.0	0.0	0.6	0.0	R 4.5	0.0	0.0	0.0	R 2.1	4.5	R 336.2
2008	331.1	(s)	0.5	0.0	0.0	0.5	0.0	H 4.3	0.0	0.0	0.0	_ <sup>H</sup> 5.8	2.8	H 344.4
2008 2009 2010	327.7	(s)	0.5	0.0 0.0	0.0 0.0	0.5 0.5 0.4	0.0	H 5.0	0.0 0.0	0.0 0.0	0.0	H 10.2	2.5	R 346.0 R 337.5
2010	312.3	(s)	0.4	0.0	0.0	0.4	0.0	n 7.0	0.0	0.0	0.0	n 14.0	3.8	n 337.5
2011	300.5	(s)	0.5	0.0	0.0	0.5	0.0	n 8.8	0.0	0.0	0.0	n 17.9	4.4	n 332.0
2012	300.5 311.0 303.6	(s)	0.5 0.4 0.4	0.0 0.0	0.0 0.0	0.4 0.4	0.0 0.0	11 8.5 B c c	0.0 0.0 0.0	0.0	0.0	11 18.0 B 10.0	4.6	R 332.0 R 342.4 R 335.7
2013	303.0	0.4	0.4	0.0	0.0	0.4	0.0	R 9 6	0.0	0.0 0.0	0.0 0.0	R 21.2	0.3	R 242 4
2014 2015	311.2	2.1 7.0	0.3	0.0	0.0	0.3 0.3	0.0	R 7 1	0.0	0.0	0.0	R 22 2	5.6 6.8	R 354 1
2016	304.6 311.2 299.5	11.8	0.3 0.3 0.3 0.4 0.4	0.0	0.0	0.3 0.3 0.3	0.0	R 6.5	0.0 0.0	0.0	0.0	R 27.9	7.0	R 342.4 R 354.1 R 352.3
2017	302 4	75	0.0	0.0	0.0	0.0	0.0	R 8 8	0.0	0.0	0.0	R 38 8	7.3	R 364 5
2017 2018	302.4 311.2	10.5	0.4	0.0 0.0	0.0 0.0	0.4 0.4	0.0 0.0	R 10.9	0.0 0.0	0.0 0.0	0.0	R 36.6	3.5	R 372.2
2019	287.2	15.8	0.4	0.0	0.0	0.4	0.0	R_10.8	0.0	0.0	0.0	R 38.3	1.2	R 364.5 R 372.2 R 352.7
2020	277.1	16.5	0.4	0.0 0.0	0.0	0.4	0.0	R 8.4	0.0	0.0 0.0	0.0	R 46.5	27.2	R 374.9
2019 2020 2021	287.2 277.1 276.9 283.8	2.1 7.0 11.8 7.5 10.5 15.8 16.5 16.4	0.4 0.4 0.4 0.4	0.0	0.0 0.0 0.0	0.4	0.0 0.0 0.0	R 6.8	0.0 0.0 0.0	0.0	0.0 0.0 0.0	R 21.2 R 22.2 R 27.9 R 38.8 R 36.6 R 38.3 R 46.5 R 51.0 55.4	5.8 6.8 7.0 7.3 3.5 1.2 27.2 3.9 16.6	R 374.9 R 354.2 375.9
2022	283.8	14.4	0.4	0.0	0.0	0.4	0.0	6.1	0.0	0.0	0.0	55.4	16.6	375.9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Ohio

						Petroleum								
											Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	nd barrels
1960	51,250	700	23,919	2 600	1,808	78,170	11,605	24,677	143,859	0	20	0	NA	NA
1965 1970	54,022 66,863	880 1,053	27,663 34,458	3,680 5,441 8,712	3,075 5,857	86,271 106,296	10,963 6,445	32,953 34,285	166,366 196,053	22	11	0	NA	NA
1970 1971	66,863 64,537	1,053 1,087	34,458 35,209	8,712	5,857 6,448	106,296 108,167	6,445 5,254	34,285 32,461	196,053	0	7	0	NA NA	NA NA
1972	66,683	1.148	41 416	8,988 10,148	6,961	113.594	5,254 5,849	33,082	196,527 211,050 221,125 216,575	Ö	9	Ö	NA	NA
1973 1974	68,942 71,570	1,104 1,087	41,933 41,270	10,292 10,222	6,967 5,812	119,261 117,606	7,119 8,398	35,553 33,267	221,125	0	8	0	NA NA	NA NA
1975	71,570 70,764	1,087	42.168	9.910	6.039	118.808	10,399	32.074	210,575	0	10 7	0	NA NA	NA
1976	71,933	957 1,006	51,267	10.383	6,389	122,219	11.597	33 103	219,398 234,957 245,888 249,731 265,742	. 0	8	Õ	NA	NA NA
1977	73,227 71,124	847 930	52,239 54,670	10,507	6,882 7,075	126,130	15,251 14,109	34,879 35,467	245,888	468 2,425	6 5	0	NA NA	NA NA
1978 1979	72.252	898	45 290	11,423 46,635 44,263 39,689	6.815	126,987 121,618	11 316	34.068	265,742	3,163	4	0	NA	NA NA
1980	64,914	897	48,833 45,122	44,263	7,219 5,745	113,232 110,193	6,918 5,846	29,996	250,463 231,100	2,119	6	0	NA 27	NA NA
1981 1982	65,595 58,953	870 814	45,122 40,393	39,689 40,793	5,745 5,485	110,193 105,904	5,846 2,444	24,505 23,669	231,100 218 689	4,407 3,226	6 5	0	218	NA NA
1982 1983	55,301	747	40,393 33,347	40,793 41,043	5,485 5,821	105,904 107,106	4,093	23,669 24,219	218,689 215,628 209,652 206,053	3,226 4,904	135	Ö	1,137	NA
1984 1985	57,049 57,979	785 733	36,219 36,629	29,239 27,919	6,832 7,204	109,043 108,763	2,800 2,322	25,519 23,216	209,652	4,312 1,943	164 175	0	1,111 1,300	NA NA
1986	59,324	717	35,989	14,652	9.924	111,933	2,313	23,955	198,766 207,551 203,896 210,044 200,328	1,943	173	0	1,769	NA
1987	59,324 59,350	715	35,989 34,796	14,652 15,912	10,800	111,933 116,091 117,072	2,313 2,079	23,955 27,873	207,551	24 7,513	172 225 187	0	1,769 2,171	NA
1988 1989	61,096 61,016	805 814	37,704 39,333	11,025 13,213	9,218 10,405	114 574	2,814 2,300	26,063 30,217	203,896	8,455 12,661	187	0	2,387 2,769	NA NA
1990	59.205	747	37 580	10 994	10.602	110,487	1.656	29.009	200,328	10 664	181	ŏ	2,531 2,665	NA NA
1991 1992	58,578	766 810	35,433 37,525	11,120 14,638	10,400 10,631	110,487 109,920 108,696	1,338 1,606	26,483 29,856	194,695	14,833 14,805	154 253	0	2,665 3,317	NA NA
1992	58,671 59,031	834	37,525 38,817	14,030	10,650	114.756	2.136	26,881	202,953	14,605	190	0	3,317 4.692	NA
1994	57.503	842	40 548	15,065 15,234	11.678	114,756 113,178	2,136 2,018	28.478	202,953 208,304 211,134 211,140 221,373 225,093 223,486 237,048	10,011 10,952	190 192	Ō	4,692 5,499	NA
1995 1996	56,580 59,835	890 933	40,203 44,036	14,273 16,019	11,236 11,960	116,222 115,361	1,422 1,684	27,783 32,313	211,140	16,768 13,919	232 397	0	5,147 2,030	NA NA
1997	58,821	898	47.075	11,105 8,687	12.610	118,336 119,932	1.246	34.722	225,093	15,331 16,476	507	0	3,675 5,404	NA
1998	60,514	811	45,775	8,687	13,838	119,932	916	34,338	223,486	16,476	406	0	5,404	NA
1999 2000	57,600 60,246	842 891	47,989 48,814	12,929 11,961	16,457 18,655	120,902 121,297	1,221 1,510	37,551 31,677	237,048 233,915	16,422 16,781	423 583	0	5,537 5,650	NA NA
2001	58,424	804	49.465	9 779	18 579	121,450	1 034	33.661	233 968	15.464	511	ő	4.966	11
2002 2003	59,610 61,064	831 848	50,706 52,304	13,392 20,632	17,489 17,685	121,450 123,465 124,282	966 571	31,999 31,076	238,017 246,550	10,865 8,475	488 511	0	4,868 4,497	18 15 30 101
2003	59,023	826	55,757	10.965	17,000	124,202	750	31,995	242,618	15.950	730	0	4,497	30
2005	63,826	826	53.578	10,965 13,308	18,635 18,615	124,517 124,698	750 1,424	31,995 28,670	240,292	15,950 14,803	730 516	13	4,434 5,435	101
2006 2007	63,017 63,873	742 806	55,293 57,859	12,137 9,022	18,486 18,145	124,364 124,107	1,375 909	30,428 32,114	240,530 242,618 240,292 242,083 242,156 235,017 218,475	16,847 15,764	632 410	14 15	5,940 7,413	290 393
2008 2009	63,445 54,859	792 741	53,738 48,204	8,032 8,956	17,998 12,744	121,561 120,531	1,258	32,431 27,305	235,017	17,514 15,206	386	15 14	10,215 11,415	337 357
2009	54,859	741 784	48,204	8,956	12,744	120,531	1,258 735 659	27,305	218,475	15,206	528	14 13	11,415	357
2010 2011	58,527 52,773	784 824	51,357 51,835	9,583 9,706	5,758 5,545	120,925 117,629	488	24,388 23,773	212,670 208,976	15,805 14,890	429 384	13 198	10,887 11,096	289 984
2012	42 170	843	49,967	8 073	4.711	117,267 118,669 118,576	197	24,614 24,478	204,829	17,087 16,121	414	985	11,745	931
2013 2014	45,742 43,585	912 1,002	50,938 52,004	8,860 9,538	4,698	118,669	511	24,478	208,154	16,121 16,284	549	1,146 1,153	11,745 12,223 11,992	1,512
2015	35,226	966 928	49,967 50,938 53,094 52,446 50,372	8,649	5,143 5,584	120.958	511 353 430 612	24,485	212,552	17.377	457	1.203	11 408	1,431 1,251 1,780
2016	33,121	928	50,372	8,649 8,797	6,105	121,924	612	23,035 24,485 R 25,294 R 24,118	204,829 208,154 209,739 212,552 R 213,105	16.817	414 549 478 457 500 277 244	1,245	11,536 11,699 11,448	1,780
2017 2018	32,438 29,149	948 1.163	51,132 52,749	8,849 9,251	5,459 6,374	121,855 120,783	410 386	R 24,118	R 211,823	17,688 18,315	2//	1,589 1,750	11,699 11 448	1,528 1,399 R 1,086
2019	23,583	1,184	51.407	10.220	5.700	119,595	386 308	R 24,670 R 23,771	<sup>n</sup> 211.000	17.011	403	2.043	11.563	R 1,086
2020 2021	22,039 22,710	1,163 1,184 R 1,157 R 1,213	50,254 R 49,373	9,716 10,050	5,546 7,149	103,936 111,848	353 378	R 23,263 23,276	R 193,067 R 202,073	18,219 17,483	374 578	2,289 2,587	10,377 11,242	1,420 R 1,185
2021	22,710	1,336	48,279	11,093	7,149 9,314	110,385	378	23,276	202,073	17,483 16,827	578 507	2,587 3,154	11,242	1,158
	=:,=:0	.,200	, •	,	-,	,	-51		,	,		2,.01	,	.,.50

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Ohio (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
						Petroleum						as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	1,269.2	724.8	139.3	14.0	9.8	410.6	73.0	149.9	796.7	2,790.7	724.8	139.3	410.6
1965 1970	1,324.4	909.4	161.1	20.8 32.7	17.0	453.2 558.4	68.9	196.5 206.3	917.5 1,071.4	3,151.3	909.4	161.1	453.2
1970	1,571.4	1,077.2	200.7	32.7	32.8	558.4	40.5	206.3	1,071.4	3,720.0	1,077.2	200.7	558.4
1971	1,490.5	1,112.1	205.1	33.7	36.2	568.2	33.0	195.6	1,071.7	3,674.3	1,112.1	205.1	568.2
1972 1973	1,561.0 1,622.8	1,174.2 1,131.8	241.2 244.3	38.0 38.4	39.1 39.2	596.7 626.5	36.8 44.8	199.9 215.9	1,151.7 1,209.0	3,887.0 3,963.5	1,174.2 1,131.8	241.2 244.3	596.7 626.5
1973	1,642.1	1,114.9	240.4	38.0	32.6	617.8	52.8	201.3	1,182.9	3,940.0	1,131.0	244.3 240.4	617.8
1975	1,619.0	978.9	245.6	36.8	33.9	624.1	65.4	194.5	1,200.3	3,798.3	978.9	245.6	624.1
976	1,653.3	1,031.1	298.6	38.5	35.9	642.0	72.9	199.4	1,287.4	3,971.8	1,031.1	298.6	642.0
1977	1.669.2	867.8	304.3	38.6	38.7	662.6	95.9	210.7	1.350.7	3,887.7	867.8	304.3	662.6
1978	1,622.4 1,668.4	951.0	318.5	41.6	39.8 38.4	667.1 638.9	88.7	214.2	1,369.9 1,384.1	3,943.3	951.0	318.5	667.1
1979	1,668.4	920.4	263.8	166.2	38.4	638.9	71.1	205.7	1,384.1	3,972.9	920.4	263.8	638.9
1980 1981	1,528.1 1,534.9	841.1 818.9	284.5 262.8	157.1 139.4	40.6	594.8 578.8	43.5 36.8	180.7 149.8	1,301.2 1,199.9	3,670.3 3,553.7	911.3 890.4	284.5 262.8	594.8 578.8
1982	1,392.0	770.4	235.3	141.8	32.4 30.9	556.3	15.4	145.0	1,124.6	3,287.0	837.1	202.0 235.3	576.6 556.3
1983	1,321.1	708.5	194.2	142.0	32.8	562.6	25.7	147.5	1,104.9	3,134.5	772.7	235.3 194.2	562.6
1984	1,361.8	768.9	211.0	101.7	38.5	572.8	17.6	154.7	1.096.3	3.227.0	814.4	211.0	572.8
985	1,389.5	739.9	213.4	97.3	40.6	571.3	14.6	141.8	1,079.0	3,208.3	765.4 749.7	213.4	571.3
986	1,431.8	744.3	209.6	52.6	56.0	588.0	14.5	147.0	1,067.8	3,244.0	749.7	209.6	588.0
987	1,433.1	747.1	202.7	57.6	61.0	609.8	13.1	170.9	1,115.0	3,295.1	747.1	202.7	609.8
988	1,474.7	837.5	219.6 229.1	40.3 48.5	52.0 58.7	615.0	17.7	158.2	1,102.8	3,415.0	837.5	219.6	615.0
1989 1990	1,468.6 1,425.3	848.0 775.7	229.1	48.5 40.0	58.7 59.9	601.9 580.4	14.5 10.4	185.8 178.2	1,138.5 1,087.8	3,455.0 3,288.9	848.3 776.6	229.1 218.9	601.9 580.4
991	1,413.4	798.4	206.4	40.4	58.8	577.4	8.4	163.0	1,007.0	3,266.3	799.3	206.4	577.4
992	1,416.9	838.2	218.6	52.5 54.0	60.1	571.0	10.1	183.1	1,054.5 1,095.3 1,100.2	3,350.4	839.3	218.6	571.0
993	1,431.6	864.6	226.1	54.0	60.2	582.4	13.4	164.0	1,100.2	3,396.4	865.6	226.1	598.7
994	1,386.1	871.3	236.0	55.1 51.7	66.1	571.0	12.7	174.8	1,115.7	3,373.1	872.8	236.0	590.1
995	1,379.8	923.0	234.0	51.7	63.7	587.0	8.9	170.9	1,116.2	3,419.0	923.9	234.0	604.8
1996 1997	1,447.1	966.7	256.3 274.0	58.3	67.8	594.1 603.2	10.6	199.1	1,186.2 1,213.5	3,600.0	968.6	256.3	601.1
1997	1,407.2 1,450.2	936.8 842.6	274.0 266.4	41.4 32.6	71.5 78.5	605.3	7.8 5.8	215.6 211.8	1,213.5	3,557.5 3,493.0	938.2 843.9	274.0 266.4	615.9 624.0
1999	1,382.2	871.9	279.2	48.1	93.3	609.7	7.7	231.4	1,269.4	3,523.5	873.2	279.2	628.9
2000	1,428.5	926.9	284.0	44.2	105.8	611.3	9.5	196.8	1.251.6	3,606.9	928.4	284.0	630.9
2001	1,362.8	836.8	287.8	35.7	105.3	614.4 625.0	6.5	208.0	1,257.8	3,457.5	838.0	287.8	631.7
2002	1,396.9	862.5	295.1	48.6	99.2	625.0	6.1	197.1	1,271.0	3,530.4	862.5	295.1	641.9
2003	1,443.5	877.9	304.4	74.2	100.3	630.3	3.6	191.2	1,303.9	3,625.3	878.9	304.4	645.9
2004 2005	1,391.3 1,481.0	862.4 860.9	324.4 311.7	40.2 48.2	105.7 105.5	631.6 628.6	4.7 9.0	196.7 177.2	1,303.3 1,280.2	3,556.9 3,622.1	862.9 861.5	324.4 311.7	647.0 647.4
2006	1,450.8	770.9	320.9	43.9	104.8	624.2	8.6	187.0	1,289.4	3,511.0	771.3	320.9	644.8
2007	1,463.8	835.6	334.7	33.4	102.9	612.4	5.7	195.2	1,284.3	3,583.6	836.2	334.7	638.2
2008	1,438.4	823.5	310.6	30.2	102.0	585.3	7.9	196.4	1,232.4	3,494.3	836.2 823.9	310.6	620.7
2009	1,267.3	770.8	276.0	33.5	72.3	574.0	4.6	164.3	1 124 7	3.162.7	771.3	278.5	613.5
010	1,355.1	810.6	294.8	36.8 37.3	32.6	575.0	4.1	148.0	1,091.3 1,067.6	3,257.0	811.0	296.6 299.1	612.7
011	1,222.6	848.8	294.5	37.3	31.4	557.1	3.1	144.2	1,067.6	3,138.9	849.1	299.1	595.6
012	1,019.1	869.6	283.6	31.0	26.7	552.9 558.1	1.2	149.7	1,045.1 1,054.0	2,933.8	869.9	288.2	593.6
2013 2014	1,104.5 1,057.4	945.7 1,058.8	285.0 297.6	34.0 36.6	26.6 29.2	558.1 558.2	3.2 2.2	147.1 138.9	1,054.0 1,062.7	3,104.2 3,178.8	946.2 1,059.5	293.6 306.0	600.5 599.9
2015	865.7	1,031.7	293.4	33.2	31.7	572.1	2.7	1/18 2	1 081 2	2,978.6	1,032.2	302.2	611.7
2016	825.3	994.2	278.6	33.8	34.6	576.3	3.9	R 155.8	R 1.083.0	2.902.4	994.4	290.0	616.3
2017	811.0	1,014.3	283.7	34.0	31.0	575.1	2.6	1/17 7	R 1,083.0 1,074.0	2 899 2	1,014.7	294.4	615.7
2018	717.8	1.236.7	294.0	35.5	36.1	570.5	2.4	R 151.2	1 089 8	R 3.044.4	1.237.2	303.8	610.4
019	594.3	1,260.5	286.8	39.2 37.3	32.3	563.9	1.9	145.9 R 142.6	1,070.2 R 982.3	2.924.9	1,260.9	296.1	604.2
2020	556.8	R 1,235.0	279.7 B 222.5	37.3	31.4	489.0	2.2	H 142.6	H 982.3	R 2,774.1	R 1,235.4	289.3	525.1
2021	575.9	<sup>n</sup> 1,294.8	R 280.5	38.6	40.5	525.7	2.4	142.2	R 1,026.2	R 2,896.9	R 1,297.6	R 284.6	564.8
2022	539.6	1,421.8	274.5	42.6	52.8	518.7	2.4	144.0	1,031.4	2,992.8	1,424.2	278.3	557.3

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Ohio (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R <sub>0.1</sub>	36.8	NA	NA	NA	NA	36.8	0.0	NA	NA	R 36.8	R 77.1 R 83.2	0.0	R 2,904.7
1965 1970	0.3 0.0	R (s) R (s)	38.6 44.1	NA NA	NA NA	NA NA	NA NA	38.6 44.1	0.0 0.0	NA NA	NA NA	R 38.6 44.1	R 83.2	0.0 0.0	R 3,273.3 R 3,824.8
1970 1971	0.0	R /₅\	44.1 43.4	NA	NA	NA	NA	43.4	0.0	NA	NA NA	43.5	R 60.7 R 39.1 R 76.3 R 88.2	0.0	R 3,824.8 R 3,756.9 R 4,008.1 R 4,098.2
1972 1973	0.0 0.0	R (s) R (s)	44.8 46.5	NA NA	NA NA	NA NA	NA NA	44.8 46.5	0.0 0.0	NA NA	NA NA	44.9 R 46.5	H 76.3	0.0 0.0	H 4,008.1
1974	0.0	B \c\	48.3	NA	NA	NA NA	NA	48.3	0.0	NA	NA	R 48.3	R 76.3 R 9.3	0.0	n 4 064 6
1975	0.0	R (s)	46.2	NA	NA	NA	NA	46.2	0.0	NA	NA	H 46.2	R 9.3	0.0	H 3.853.8
1976 1977	0.0 5.0	R (s) R (s)	52.8 58.5	NA NA	NA NA	NA NA	NA NA	52.8 58.5	0.0 0.0	NA NA	NA NA	52.8 R 58.5	R 63.0 R 149.9 R 119.7 R 64.2	0.0	R 4,087.5 R 4,101.2
1978	26.5	(s)	69.6	NA	NA	NA	NA	69.6	0.0	NA	NA	69.6	R_119.7	0.0	R 4,159.1 R 4,146.2
1979	34.4	R (s)	74.6	NA	NA	NA	NA	74.6	0.0	NA	NA	R 74.6	R 64.2	0.0	R 4,146.2
1980 1981	23.1 48.6	R /₅\	107.3 112.9	NA 0.1	NA NA	NA NA	NA 0.0	107.3 113.0	0.0 0.0	NA NA	NA NA	R 107.3 113.0	R 44.8 R 34.0 R -37.6 R 5.6 R 122.3	0.0 0.0	R 3,845.6 R 3,749.3 R 3,399.4
1982	35.7	R (s) R 0.5	112.2	0.8	NA	NA	1.3	114.3	0.0	NA	NA	11// 3	R -37.6	0.0	R 3,399.4
1983 1984	53.5	H 0.5 H 0.6	124.3	3.9	NA	NA	2.5	130.7	0.0	NA	0.0	R 131.2	H 5.6	0.0	R 3,324.8 R 3,523.3
1984	46.8 20.6	R06	119.9 121.9	3.9 4.5	NA NA	NA NA	2.9 3.1	126.7 129.5	0.0 0.0	0.0 0.0	0.0 0.0	R 127.3 R 130.1	R 153.9	0.0 0.0	H 3 512 0
1986	0.3	R 0.6	108.6	6.1	NA	NA	3.3	118.0	0.0	0.0	0.0	R 118.6	R 117.5	0.0	R 3,480.4 R 3,611.2
1987 1988	78.4 89.6	R 0.8 R 0.6	111.9 117.7	7.5	NA NA	NA	3.6	123.0 129.6	0.0	0.0 0.0	0.0 0.0	R 123.8 R 130.2	H 113.8	0.0 0.0	H 3,611.2 R 3,760.2
1989	134.0	R∩⊿	97.4	8.3 9.6	NA NA	NA NA	3.6 3.4	110.4	0.0 0.3	(s)	0.0	R 111 2	R 153.9 R 117.5 R 113.8 R 125.4 R 145.9 R 327.6 R 300.8	0.0	R 2 2/6 1
1990	112.8	R 0.6 R 0.5	66.1 70.8	8.8	NA	NA	2.8	77.7	0.3	(s)	0.0	R 78.7 R 84.2	R 327.6	0.0	R 3,808.0 R 3,806.9
1991 1992	155.5 155.0	R 0.5 R 0.9	70.8 66.7	9.2 11.5	NA NA	NA NA	3.3 2.9	83.3 81.1	0.4 0.4	(s) (s)	0.0 0.0	R 84.2 R 82.4	H 300.8	0.0 0.0	H 3,806.9
1993	105.2	H 0 6	44.2	16.3	NA	NA	3.1	63.6	0.4	(s)	0.0	R 64.7	R 266.0 R 338.6 R 430.6 R 410.2 R 335.3 R 343.8	0.0	R 3,853.8 R 3,904.9 R 4,011.2
1994	114.5	R 0.7	69.0	19.1	NA	NA	3.7	91.8	0.5	(s)	0.0	R 92.9	R 430.6	0.0	R 4,011.2
1995 1996	176.2 146.2	R 0.8 R 1.4	65.3 74.2	17.9 7.0	NA NA	NA NA	1.7 0.0	84.9 81.3	0.5 0.6	(s) (s)	0.0 0.0	R 86.2 R 83.2	<sup>□</sup> 410.2 R 335 3	0.0 0.0	R 4,091.6
1997	160.9	H 1.7	68.3 62.3	12.7	NA	NA	0.0	81.1	0.6	0.1	0.0	H 83.5	R 343.8	0.0	R 4,164.7 R 4,145.6 R 4,065.3
1998	172.8	R 1.4	62.3	18.7	NA	NA	0.0	81.0	0.7	0.1	0.0	R 83.2	R 316.2	0.0	R 4,065.3
1999 2000	171.6 175.0	R 1.4 R 2.0	69.1 72.5	19.2 19.6	NA NA	NA NA	0.0 0.0	88.4 92.1	0.8 0.8	0.1 0.1	0.0 0.0	R 90.7 R 95.0	R 202.7	0.0 0.0	R 4,218.4 R 4,259.6
2001	161.5	R 2.0 R 1.7	44.9	17.2	0.1	NA	0.0	62.2	0.8	0.1	0.0	H 64.8	R 315.9	0.0	R 3,999.7 R 3,939.2
2002	113.5	R 1.7	32.2	16.9	0.1	NA	0.0	49.1	0.9	0.1	0.0	H 51.8	R 243.5	(s)	R 3,939.2
2003 2004	88.3 166.3	R 1.7 R 2.5	41.5 42.5	15.6 15.4	0.1 0.2	NA NA	0.0 0.0	57.1 58.0	1.2 1.3	0.1 0.1	0.0 0.0	R 60.2 R 62.0	R 315.9 R 243.5 R 233.4 R 254.6	(s) (s) -0.2	R 4,007.2 R 4 039 6
2005	154.5	R 1 8	47.3	18.8	0.5	NA	0.1	66.8	1.5	0.2	R (s) R (s) 0.1	R 70.3	n 224 0	-1.2	R 4,039.6 R 4,069.6
2006 2007	175.8 165.3	R 2.2 R 1.4	46.7 49.9	20.6 25.7	1.6 2.1	NA NA	0.2 0.2	69.0 77.9	1.7 2.0	0.2 0.2	H (s)	R 73.1 R 81.5	R 149.9 R 206.5	2.1	R 3,911.9 R 4,038.1
2007	183.1	H 1.3	49.9 53.9	25.7 35.4	1.8	NA NA	18.6	109.8	2.0	0.2	0.1	R 113.7	R 196.6	1.0 0.0	R 3.987.7
2009	159.0	R1Ω	53.9 50.3	39.5	1.9	NA	14.5	106.3	2.3 2.9	0.2 R 0.3 R 0.4	0.1 R (s) R (s) R 0.7	R 113.7 R 111.2	R 196.6 R 219.1 R 225.6 R 300.3	(s) 0.0	R 3,987.7 R 3,652.0
2010 2011	165.2 155.8	R 1.5 R 1.3	59.8 59.2	37.7 38.5	1.5 5.3	NA 0.0	22.2 25.6	121.2 128.5	3.2 3.4	7 0.3 B 0 4	H (s)	R 126.3 R 134.2	n 225.6 B 200.2	0.0 0.0	R 3,774.2
2012	179.1	H 1 1	55.5 63.2	40.7	5.0	0.0	24.4	125.6	3.4	R 0.6 R 0.7	R 3.4 R 3.9	H 13// //	R 333.0 R 234.8	0.0	R 3,729.3 R 3,580.3
2013	168.5	H 1.9	63.2	42.4	8.1	0.0	25.5	139.2	3.4	R 0.7	R 3.9	R 149.0	R 234.8	0.0	H 3.656.5
2014 2015	170.3 181.7	R 1.6 R 1.6	63.6 60.3	41.6 39.6	7.7 6.7	0.0 0.0	29.9 30.3	142.9 136.9	3.4 3.4	R 0.7 R 0.8	R 3.9 R 4.1	R 152.6 R 146.8	R 249.0	0.0 0.0	R 3,760.8
2016	175.9	R 1 7	56.9	40.1	9.5	0.0	31.3	R 137.7	3.4	R 0.9 R 1.1	H42	R 1⊿8 ∩	R 259.0 R 349.9 R 382.6 R 325.9 R 313.5	(s) 0.1	R 3,657.0 R 3,608.9
2017	185.0	H 0.9	51.8	40.7	8.2	0.0	32.6	133.2	3.4	R 1.1 R 1.2	R 5.4 R 6.0	R 144.1	H 325.9		R 3,554.3 R 3,695.4
2018 2019	191.5 177.6	R 0.8 R 1.4	53.2 52.6	39.9 40.3	7.5 5.8	0.0 0.0	33.8 33.2	134.4 R 131.8	3.4 3.4	11.2 R 1 4	R 7 0	R 145.8 R 145.0	R 327 5	0.3 0.0	R 3 575 1
2020	190.3	R 1.3	H 45.0	36.1	7.6	0.0	28.2	n 116.9	3.4	R 1.4 R 1.6 R 3.5	n 7.8	H 131.1	R 327.5 R 243.8	0.0	R 3,575.1 R 3,339.3
2021	R 182.3	H 2.0	H 44.7	39.1	R 6.4	0.0	30.9	H 121.0	3.4	H 3.5	R 8.8	<sup>H</sup> 138.8	R 264.1	0.0	R 3,482.1
2022	175.5	1.7	44.8	38.7	6.2	0.0	34.5	124.2	3.4	4.5	10.8	144.6	190.3	0.0	3,503.2

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Ohio

						Petroleum					Bior	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	<b>S</b>			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	29,691	697	23,812	3,680	1,808	78,170	11,511	24,677	143,658	12					57,718			
1970	31,542	1,032	33,667	8,712	5,857	106,296	5,748	34,285	194,565	0					85,220			
1980	16,377	892	47,190	44,263	7,219	113,232	6,313	29,996	248,215	0					112,111			
1990 2000	10,357 4,512	745 881	37,128 48.022	10,994 11,961	10,602 18,655	110,487 121,297	1,520 1,498	29,009 31,677	199,740 233,110	0					142,465 165,195			
2005	4,219	798	52,855	13,308	18,615	124,698	1,424	26,824	237,723	0					160,176			
2006	4,412	719	54,709	12,137	18,486	124,364	1,375	28,592	239,663	0					153,429			
2007	4,421	769	57,268	9,022	18,145	124,107	909	30,614	240,064	0					161,771			
2008 2009	4,491 3,762	769 703	53,211 47,720	8,032 8,956	17,998 12,744	121,561 120,531	1,258 735	30,532 25,535	232,591 216,221	0					159,389 146,300			
2009	4,815	703 726	50,808	9,583	5,758	120,931	659	22,456	210,188	0					154,145			
2011	4,633	731	51,250	9,706	5,545	117,629	488	21,756	206,375	0					154,746			
2012	5,051	671	49,451	8,073	4,711	117,267	197	22,276	201,974	0					152,457			
2013	5,119	751	50,476	8,860	4,698	118,669	511	21,876	205,090	0					150,307			
2014	5,167	827	52,502	9,538	5,143	118,576	353	20,955	207,067	0					150,680			
2015 2016	4,708 4,064	758 716	52,030 49,952	8,649 8,797	5,584 6,105	120,958 121,924	430 612	22,125 R 23,144	209,777 R 210,534	0					149,213 150,598			
2017	3,915	741	50,764	8,849	5,459	121,855	410	R 22,217	R 209,554	0					146,644			
2018	4,028	840	52,303	9,251	6,374	120,783	386	R 21,922	R 211,019	0					152,915			
2019	3,988	_ 820	51,096	10,220	5,700	119,595	308	R 22,192	R 209,110	0					148,522			
2020	3,277	R 784	50,028	9,716	5,546	103,936	353	R 20,681	R 190,260	0					142,615			
2021 2022	3,680 3,261	R 824 859	R 49,056 47,452	10,050 11.093	7,149 9.314	111,848 110,385	378 387	R 20,958 21,442	R 199,439 200.073	0					147,718 149,500			
LOLL	0,201		47,402	11,000	0,014	110,000		21,442	Trillion	-					140,000			
																D	D	
1960 1970	756.8	721.7	138.7	14.0 32.7	9.8	410.6 558.4	72.4	149.9	795.5	R (s) 0.0	36.7			NA NA	196.9	R 2,507.6	R 397.1 R 595.6	R 2,904.7 R 3,824.8
1970	776.7 417.6	1,055.3 906.6	196.1 274.9	157.1	32.8 40.6	558.4 594.8	36.1 39.7	206.3 180.7	1,062.4 1,287.8	0.0	44.0 107.3			NA NA	290.8 382.5	3,229.2 3,031.9	R 813.7	R 3,845.6
1990	264.0	775.3	216.3	40.0	59.9	580.4	9.6	178.2	1,084.4	0.0	62.5			(s)	486.1	2.683.3	R 1,124.7	R 3,808.0
2000	116.0	918.1	279.4	44.2	105.8	630.9	9.4	196.8	1,266.5	0.0	71.5			0.1	563.6	2,935.1	R 1.324.5	R 4,259.6
2005	108.0	832.7	307.5	48.2	105.5	647.4	9.0	166.6	1,284.3	0.0	46.2			0.2	546.5	2,819.5	R 1,250.2	R 4,069.6
2006	113.6	747.4	317.5	43.9	104.8	644.8	8.6	176.5	1,296.1	0.0	45.6			0.2	523.5	2,729.4	R 1,182.5 R 1,223.8	R 3,911.9 R 4,038.1
2007 2008	113.9 116.2	797.7 799.7	331.2 307.6	33.4 30.2	102.9 102.0	638.2 620.7	5.7 7.9	186.6 185.5	1,298.0 1,254.0	0.0	48.9 50.4			0.2 0.2	552.0 543.8	2,814.3 2,786.6	R 1,201.0	R 3,987.7
2009	97.1	732.4	275.7	33.5	72.3	613.5	4.6	154.2	1,153.8	0.0	47.3			0.2	499.2	2,546.9	R 1.105.8	R 3,652.6
2010	124.7	751.1	293.4	36.8	32.6	612.7	4.1	136.9	1,116.6	0.0	55.7			0.3	525.9	R 2,599.5	R 1,174.9	R 3,774.4
2011	119.9	753.6	295.7	37.3	31.4	595.6	3.1	132.7	1,095.7	0.0	55.4			R <sub>0.3</sub>	528.0	R 2,581.5	R 1.147.1	R 3,728.6
2012	138.0	694.1	285.2	31.0	26.7	593.6	1.2	136.3	1,074.1	0.0	49.4			R 0.4 R 0.5	520.2	R 2,503.8	R 1,076.1	R 3,579.9
2013 2014	141.0 140.4	779.4 877.0	290.9 302.6	34.0 36.6	26.6 29.2	600.5 599.9	3.2 2.2	132.2 127.0	1,087.4 1,097.4	0.0	56.5 57.1			R 0.6	512.8 514.1	R 2,606.4 R 2,719.5	R 1,050.6 R 1,042.1	R 3,657.0 R 3,761.5
2014	131.4	811.5	299.8	33.2	31.7	611.7	2.2	134.7	1,113.7	0.0	53.6			R 0.6	509.1	R 2,653.4	R 1,005.7	R 3,659.2
2016	113.5	769.3	287.6	33.8	34.6	616.3	3.9	R 143.5	1,119.6	0.0	50.5			R <sub>0.7</sub>	513.8	R 2,602.2	R 1,008.5	R 3,610.7
2017	110.3	795.0	292.2	34.0	31.0	615.7	2.6	136.9	1,112.4	0.0	45.2			R 0.7	500.3	R 2,599.8	R 957.0	R 3,556.8
2018	114.1	895.8	301.2	35.5	36.1	610.4	2.4	135.4	R 1,121.2	0.0	46.5			R 0.8	521.7	R 2,737.2	R 960.4	R 3,697.7
2019 2020	113.5 93.2	874.7 R 839.2	294.3 288.0	39.2 37.3	32.3 31.4	604.2 525.1	1.9 2.2	136.9 R 127.8	1,108.9 R 1.011.8	0.0	46.2 R 39.1			R 1.0 R 1.1	506.8 486.6	R 2,687.6 R 2.502.7	R 890.9 R 838.5	R 3,578.5 R 3,341.2
2020	93.2 104.9	R 884.9	R 282.8	37.3 38.6	31.4 40.5	525.1 564.8	2.2	128.9	R 1,011.8	0.0	R 38.9			"1.1 R 1.3	486.6 504.0	R 2,624.7	R 858.8	R 3,483.5
2021	92.6	919.8	273.6	42.6	52.8	557.3	2.4	132.2	1,060.9	0.0	40.2			1.4	510.1	2,661.8	842.7	3,504.5
		2.0.0	5.0	.=.0		227.0			.,	0.0	70.2	3	0		2.0	_,		2,220

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Ohio

- 1				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	2,013	362	7 270	1,725	1 837	10.832				10 786			
1960 1965	1,285	362 412	7,270 7,795	2,261	1,837 3,626	10,832 13,682				10,786 14,504			
1970	906	460	9.320	3,837	2.979	16 136				22,266			
1975	340	428	10,776	4,808	2,060	17,644 10,966				22,266 27,890			
1980	117	394 328 308	7,430 4,645 4,740	2,520	1,016	10,966				33,459 33,945			
1985	189	328	4,645	3,292	941	8,878 9,510				33,945			
1990	131 53	308 358	4,740	4,146	625 748	9,510				37,889 44,010			
1995 2000	24	358	3,998 2,999	4,908 6,377	748 419	9,655				44,010			
2005	27	344	2,860	4,868	442	9,796 8,170				46,488 53,904			
2005	10	323 272	2,197	4,621	364	7 182	==			53,90 <del>4</del> 51,375			
2007	14	300	2.514	5,036	243	7,182 7,794				54.376			
2008	0	307	2,514 2,299	5,296	121	7,716				51,375 54,376 53,411			
2009	Ö	292	1,798 1,665	5,929	208 172	7.934				51,405 54,474 53,687			
2009 2010	Ō	292 284	1,665	5,929 5,237	172	7,934 7,074				54,474			
2011	0	286	1.563	5.086	118	6.768				53,687			
2012	0	251 297	1,281 1,310	3,947 4,358	45 44	5,273 5,712				52,288 52,158			
2013	0	297	1,310	4,358	44	5,712				52,158			
2014	0	321 285	1,402	4,754 4,312	95 59 74	6,250 5,791 5,738				52,804 51,493 52,524			
2015	0	285	1,420	4,312	59	5,791				51,493			
2016	0	256	1,269	4,395	/4	5,738				52,524			
2017 2018	0	259 301 290	1,340	4,475 4,922	44	5,858 6,465				49,796 54,452 52,226			
2016	0	301	1,495 1,442	5,603	47 50	7,095		==		54,452 52,226			
2020	0	272	1,286	4,794	61	6 141				52,553			
2021	ŏ	273	1,330	4,955	61 51	6,141 R 6,336				52,553 53,171			
2022	Ö	293	1,388	5,149	47	6,585				53,312			
							Trillion Btu						
1960	48.0	374.5	42.3	6.6	10.4	59.4	19.8	NA	NA	36.8	538.5	R 74.2	R 612.7
1965	30.5	425.6	45.4	8.7	20.6	74.7	16.1	NA NA	NA	49.5	596.4	_R 97.3	R 693.7
1970 1975	20.8	470.6	54.3	14.7	16.9	85.9	18.5	NA	NA	76.0 95.2	671.7	H 155.6	R 693.7 R 827.3 R 847.3
1975	7.6	438.1	62.8	18.5	11.7	92.9	19.3	NA	NA	95.2	653.0	H 194.3	H 847.3
1980	2.7 4.5	400.1	43.3	9.7	5.8 5.3	58.7	48.4	NA	NA	114.2 115.8	592.8	H 242.9	R 835.6 R 781.4 R 830.5 R 937.0 R 945.9 R 1.001.8 R 906.8 R 965.2 R 962.6
1985	4.5	342.0	27.1	12.6	5.3	45.0	50.3	NA	ŅĄ	115.8	546.1	n 235.4	n 781.4
1990 1995	3.2 1.3	320.7 371.4	27.6 23.3	15.9 18.9	3.5	47.1	31.2 16.8	0.3 0.4	(s)	129.3 150.2	531.4 586.1	P 299.1	n 830.5
2000	0.6	358.5	23.3 17.5	24.5	3.5 4.2 2.4	46.4 44.3	11.1	0.4	(s) (s) 0.1	158.6	573.2	R 272.7	N 937.0
2005	0.6	336.7	16.6	18.7	2.5	37.8	20.9	1.1	0.1	183.9	581.1	R 420.7	R 1 001 8
2005	0.0	282 0	10.0	17.7	2.3	37.0	18.6	1.1	0.2	175.3	R 510.8	R 396 n	R one 8
2006 2007	0.2 0.3	282.9 310.7	12.7 14.5	19.3	2.1 1.4	32.6 35.3	18.6 20.5	1.2 1.5	0.2 0.2	175.3 185.5	553.8	R 411 3	R 965.2
2008	0.0	318.9	13.3	20.3	0.7	34.3	23.0	1.8	0.2	182.2	560.2	R 402.5	R 962.6
2009	0.0	304.5 293.5	10.4	22.8	1.2	34.3 30.7	21.2	1.8 2.2 2.5	0.2 R 0.2	175.4 185.9	537.7 535.4	R 388.5	R 926.3 R 950.6 R 930.1 R 850.8 R 902.4
2010	0.0	293.5	9.6	20.1	1.0	30.7	22.8	2.5	R 0.2	185.9	535.4	R 415.2	R 950.6
2011	0.0	295.1 259.4	9.0 7.4	19.5 15.2	0.7 0.3	29.2 22.8	22.1 18.5	2.4 2.6	0.3	183.2 178.4 178.0	532.2	R 398.0	R 930.1
2012	0.0	259.4	7.4	15.2	0.3	22.8	18.5	2.6	0.3	178.4	481.8 R 537.8	H 369.1	H 850.8
2013	0.0	308.5	7.6	16.7	0.2	24.5	24.1	2.6	0.3	178.0	H 537.8	H 364.6	H 902.4
2014	0.0	339.9 305.4	8.1	18.3	0.5 0.3	26.9 25.1	24.4	2.6 2.6	R 0.3	180.2 175.7	R 574.0	<u>n</u> 365.2	n 939.2
2015	0.0	305.4	8.2	16.6	0.3	25.1	21.6	2.6	R 0.3 R 0.3	175.7	R 530.4	n 347.1	n 877.5
2016	0.0 0.0	274.9 277.6	7.3 7.7	16.9 17.2	0.4 0.2	24.6 25.1	18.9 18.0	2.6 2.6	R 0.3	179.2	R 500.4 R 493.5	R 97.3 R 155.6 R 194.3 R 242.9 R 235.4 R 299.1 R 350.9 R 372.7 R 420.7 R 396.0 R 411.3 R 402.5 R 388.5 R 415.2 R 398.0 R 365.2 R 364.6 R 365.2 R 342.0 R 351.7 R 325.0 R 342.0 R 343.0 R 350.0 R 343.0 R 350.0 R 343.0 R 350.0	R 939.2 R 877.5 R 852.2 R 818.5 R 901.4
2017 2018	0.0	277.6 321.3	7.7 8.6	17.2 18.9	0.2 0.3	25.1 27.8	18.0 21.6	2.6 2.6	R 0.4	169.9 185.8	R 559.3	R 242.0	" 818.5 R 001.4
2018	0.0	321.3	8.3	21.5	0.3	27.8 30.1	∠1.0 21.3	2.0	R 0.5	178.2	R 542.0	R 212 2	R 955 2
2020 2021	0.0	201.1	6.3 7.4	18.4	0.3	26.1	21.3 R 14.2 R 15.2	2.6 2.6 2.6 2.6	Ros	179.3	R 513.8	R 300 0	R 855.3 R 822.8 R 828.1
-020	0.0	291.1 292.8	7.7	19.0	0.3 0.3	26.2 27.0	R 15.2	2.0	R 0.6 R 0.7	181.4	R 519.0	B 200.1	R 929 1
2021	U.U												

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Ohio

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	1,399	108	1,443	33/	95	5/11	2,118	1 532	NA			NA	7 504			
1965	969	108 127	1,548	334 437	188	541 572	1,997	4,532 4,743	NA			NA	7,594 10,384			
1970 1975	712 792	183 169	1,850 2,139	742 929	155 107	401 956	824 1,457	3,972 5,589	NA NA			NA NA	17,073 20,047			
1980	439	166	2,591	487	130	2,058	380	5.646	NA			NA	23,323			
1985 1990	670 523	143 144	2,114 1,920	636 801	440 189	604 1,059	83 22	3,877 3,991	NA 0			NA (s)	29,176 34,850			
1995	356	175	1,709	949	89	438	5	3,189	0			(s)	40,093			
2000	192	178	1,740	1,233	132	525	0	3,630	0			(s)	44,635			
2005 2006	307 100	167 147	1,270 1,534	1,076 690	224 161	275 454	108 28	2,953 2,867	0		 	(s) 1	46,870 46,141			
2007	127	161	1,765	959	84	458	1	3,267	Ö			1	48,129			
2008 2009	242 217	167 161	1,953 2,458	1,054 1,088	41 28	380 320	8	3,437 3,895	0			1	47,310 45,370			
2010	226	156	2,434	1,000	27	278	6	3,746	0			5	46,526			
2011	193	161	2,295	1,008	13	98	, 5	3,420	0			13	47,112			
2012 2013	131 146	145 168	2,517 2,258	751 932	7 5	99 102	(s)	3,374 3,297	0			47 58	46,756 46,718			
2014	133	183	1,980	971	9	97	Ö	3,057	ő			69	47,005			
2015	82	167	2,050	830	6	3,035	0	5,921	0			80	47,124			
2016 2017	45 1	152 157	2,059 2,090	940 998	12 6	3,037 3,084	0	6,048 6,178	0			86 99	47,742 46,158			
2018	Ó	179	2.136	1,122	8	3,132	Ö	6,398	Ö			116	47,192			
2019 2020	0	177 162	2,147 2,186	1,239 1,497	10 8	3,155 3,178	0	6,550 6,870	0			121 128	46,009 43,204			
2020	0	169	2,160	1,517	8	3,207	0	6,784	0			133	44,980			
2022	0	182	2,114	1,726	7	3,299	0	7,146	0			146	46,091			
								Tril	lion Btu							
1960	33.4 23.0	111.7	8.4	1.3 1.7	0.5	2.8	13.3	26.4	NA	0.4	NA	NA	25.9 35.4	197.8	R 52.2 R 69.7	R 250.0 R 286.8
1965 1970	16.3	131.0 187.6	9.0 10.8	1./ 2.8	1.1 0.9	3.0 2.1	12.6 5.2	27.3 21.8	NA NA	0.3 0.3	NA NA	NA NA	35.4 58.3	217.1 284.3	H 110 2	P 403.7
1975	17.7	173.4	12.5	3.6	0.6	5.0	9.2	30.8	NA	0.4	NA	NA	68.4	290.7	H 139.7	R 430.4
1980	10.2 16.0	168.9 149.6	15.1 12.3	1.9 2.4	0.7 2.5	10.8	2.4 0.5	30.9 20.9	NA NA	1.2	NA NA	NA NA	79.6 99.5	277.5 282.2	n 169 3	R 446.8 R 484.5
1985 1990	12.6	149.6	11.2	3.1	2.5 1.1	3.2 5.6	0.5	20.9	0.0	1.2 3.6	0.0	(s)	118.9	305.4	R 202.3 R 275.1	R 580.5
1995	8.7	181.8	9.9	3.6	0.5	2.3	(s) 0.0	16.4	0.0	2.5	0.1	(s)	136.8	346.1	H 319 7	R 665 8
2000 2005	4.6 7.4	185.4 173.9	10.1 7.4	4.7 4.1	0.7 1.3	2.7 1.4	0.0 0.7	18.3 14.9	0.0 0.0	2.4 3.5	0.2 0.5	(s) (s)	152.3 159.9	363.0 359.9	R 357.9 R 365.8	R 720.9 R 725.7
2006	2.4	152.7	8.9	2.7	0.9	2.4	0.2	15.0	0.0	3.1	0.5	(s)	157.4	331.1	R 355.6 R 364.1	R 686.7 R 719.1
2007	3.1	166.6	10.2	3.7	0.5	2.4	(s)	16.7	0.0	4.0	0.5	(s)	164.2	355.0	R 364.1 R 356.5	R 719.1
2008 2009	6.5 5.8	173.8 167.3	11.3 14.2	4.0 4.2	0.2 0.2	1.9 1.6	0.1 (s)	17.6 20.2	0.0 0.0	3.5 3.0	0.6 0.7	(s) (s)	161.4 154.8	363.2 351.6	R 342.9	R 719.7 R 694.5
2010	6.0	161.8	14.1	3.8	0.2	1.4	(s)	19.5	0.0	3.0	0.7	B les	158.7	349.7	R 342.9 R 354.6	R 694.5 R 704.3
2011 2012	5.1 3.5	166.5 150.4	13.2 14.5	3.9 2.9	0.1	0.5 0.5	(s)	17.7 17.9	0.0 0.0	2.9 2.5	0.9 0.8	H (s)	160.7 159.5	353.9 R 334.8	H 349.2	R 703.1 R 664.8
2012	3.9	174.5	13.0	3.6	(s) (s)	0.5	(s) 0.0	17.1	0.0	2.9	0.8	R (s) R 0.2 R 0.2	159.5	R 358 8	R 349.2 R 330.0 R 326.6	R 685.4
2014	3.5	194.2	11.4	3.7	0.1	0.5	0.0	15.7	0.0	3.1 3.5	0.8	H 0 2	160.4	R 377.8	R 325.1 R 317.6	H 702 9
2015 2016	2.2 1.2	178.3 163.8	11.8 11.9	3.2 3.6	(s) 0.1	15.3 15.4	0.0 0.0	30.4 30.9	0.0 0.0	3.5 3.5	0.8 0.8	R 0.3 R 0.3	160.8 162.9	R 376.2 R 363.4	11 317.6 R 319 7	R 693.8 R 683.1
2017	(s) 0.0	168.5	12.0	3.8	(s) (s)	15.6	0.0	31.5	0.0	3.5 3.4	0.8	R 0.3	157.5	R 362 0	R 319.7 R 301.2	R 683.1 R 663.2
2018		190.9	12.3	4.3	(s)	15.8	0.0	32.5	0.0	3.4	0.8	R 0.4 R 0.4	161.0	R 389.0 R 383.8	H 296 4	R 685.4 R 659.7
2019 2020	0.0 0.0	189.3 173.5	12.4 12.6	4.8 5.8	0.1 (s)	15.9 16.1	0.0 0.0	33.1 34.4	0.0 0.0	3.2 3.3	0.8 0.8	R 0.4	157.0 147.4	R 359.9	R 276.0 R 254.0	R 613.9
2021	0.0	182.0	11.8	5.8	(s)	16.2	0.0	33.9	0.0	3.6	0.8	R 0.5	153.5	R 373.8	H 261.5	H 635.3
2022	0.0	194.4	12.2	6.6	(s)	16.7	0.0	35.5	0.0	3.4	0.8	0.5	157.3	391.6	259.8	651.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Ohio

		I			Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	25.835	218	7,112	1.585	3.354	9.082	19,969	41,102	12				NA	39,246			
1965	25,835 26,758	218 327	8,479	1,585 2,649	3,354 2,598	9,082 8,228	25,751	47,705	1				NA	41,757			
1970	29,875 22,307	376	11,429	3,999	1,926	4,166	29,198	50,718	0				NA	45,827			
1975 1980	22,307 15,821	345 321	11,150	3,993	1,519	7,038	27,794 26,952	51,495 87,405	0				NA NA	55,597 55,283			
1980	10,420	321 253	12,591 6,944	41,031 23,612	1,154 1,074	5,678 2,098	20,952	53 936	0				NA NA	61,109			
1985 1990	9,703	253 284	5,973	5,689	973	2,098 1,493	20,208 26,497	53,936 40,626	ŏ				(s)	69,682			
1995	6.386	332	5,861	8.159	1,200	1 362	25.319	41.901	0				(s)	74,473			
2000	4,296	340	4,868	4,206	707	1,485 1,315	29,421	40,687	0				(s)	74,019			
2005	3,885	295 287	6,017	7,096	2,349	1,315	24,794	41,572	0				(s)	59,354			
2006 2007	4,303 4,279	287 295	5,941 5,883	6,564 2,829	2,440	1,346 905	26,514 28,697	42,805 40,246	0				(s) (s)	55,869 59,219			
2007	4,249	284	6,329	1,276	1,932 1,537	1 250	29,008	39,400	ő				(s)	58,621			
2009	3.545	234	5.280	1.686	1.491	734	24.029	33,220	ŏ				(s)	49.486			
2010	4,589	270	6,029	3,302	1,403	734 653	21,165	32,552	0				(s)	53,109			
2011	4,440	269	5,199	3.571	1,570	482	20.580	31.402	0				1	53,913			
2012 2013	4,921 4,973	265 275	6,021 5,952	3,342 3,526	1,570	197 511	21,279 20,852	32,409 32,453	0				4	53,379 51,387			
2013	4,973 5,035	308	5,952 6,486	3,526	1,612 1,005	352	19,852	32,453	0				b 7	51,387			
2015	4,626	286	6,155	3,435	1,587	424	21 010	32,432	0		==		7	50,557			
2016	4,019	286 289	5,893	3,371	1,570	424 611	21,010 R 22,072	32,610 R 33,517	ŏ				7	50,291			
2017	3,914	295	6,367	3,342	1,588	410	H 21 241	R 32,948 R 32,603 R 31,693	Ō				8	50,651			
2018	4,028	330	6,473	3,144	1,621	379 284	H 20 986	R 32,603	0				9	51,236			
2019	3,988	320	5,314	3,215	1,599	284	R 21,280 R 19,860	R 31,693 R 31,535	0				26	50,249			
2020 2021	3,277 3,680	304 330	6,362 5,984	3,362 3,492	1,609 1,595	342 367	R 19,860	R 30,866	0				29 35	46,823 49,529			
2022	3,261	330	6,048	4,128	1,660	376	19,897	32,109	0				39	50,063			
	-, -		-,-	, -	,,,,,		-,	,	Trillion Bt	·u				,			
1960	664.3	226.1	41.4	6.0	17.6	57.1	123.6	245.7	R (s)	16.5	NA	NA	NA	133.9	R 1,286.6	R 270 0	R 1 556 6
1965	681.5	338.3	49.4	10.0	13.6	51.7	156.4	281.2	(s)	22.1	NA NA	NA.	NA NA	142.5	1,465.6	R 270.0 R 280.2	R 1,556.6 R 1,745.8
1970	738.5	384.8	66.6	14.6	10.1	26.2	177.4	294.9	Ò.Ó	25.2	NA	NA	NA	156.4	1,599.8	R 320.3	R 1,920.1 R 1,814.1
1975	556.5	352.8	64.9	14.1	8.0	44.2	169.9	301.2	0.0	26.6	NA	NA	NA	189.7	1,426.7	R 320.3 R 387.3 R 401.3	R 1,814.1
1980	404.7	326.0	73.3	144.7	6.1	35.7	163.1	422.9	0.0	57.7	NA	NA	NA	188.6	1,374.5	H 401.3	R 1,775.8
1985 1990	265.7 248.2	264.4 294.9	40.4 34.8	80.8 19.6	5.6 5.1	13.2 9.4	124.4 163.6	264.5 232.5	0.0		3.1 2.8	NA 0.0	NA (s)	208.5 237.8	1,065.0 1,043.5	R 423.7 R 550.1 R 593.8 R 593.5 R 463.3	R 1,488.7 R 1,593.6
1995	162.9	344.5	34.1	28.2	6.2	8.6	156.5	232.5	0.0		1.7	0.0	(s)	257.6 254.1	1,042.0	R 503.1	R 1,635.9
2000	110.8	354.5	28.3	14.4	3.7	9.3	183.5	239.3 234.5	0.0		0.0	0.0	(s)	252.6 202.5	1,014.4	R 593.5	R 1,607.9
2005	100.1	307.7	35.0	14.4 24.4	12.2	9.3 8.3	183.5 154.7	234.5	0.0	21.8	0.1	0.0	(s)	202.5	866.4	R 463.3	R 1,607.9 R 1,329.6
2006	111.0	298.6	34.5	22.4	12.7	8.5	164.4	242.4 234.7	0.0	23.9	0.2	0.0	(s)	190.6	866.5	'' 430.6	H 1.297.1
2007	110.5	305.8	34.0	9.6	9.9	5.7	175.5	234.7	0.0		0.2	0.0	(s)	202.1	877.3	R 448.0	R 1,325.3
2008 2009	109.8 91.3	295.1 243.2	36.6 30.5	4.3 5.6	7.8 7.6	7.9 4.6	176.5	233.1	0.0 0.0	24.0	18.6 14.5	0.0 0.0	(S)	200.0	880.4	R 441.7 R 374.0 R 404.8	R 1,322.1 R 1,108.4
2010	118.7	279.4	34.8	12.7	7.0	4.0	145.4 129.3	193.7 188.0	0.0		22.2	0.0	(S)	168.8 181.2	734.4 R 819.3	R 404 8	R 1,224.2
2011	114.7	277.2	30.0	13.7	7.9	3.0	125.7	180.4	0.0	30.4	25.6	0.0	(s)	184.0	812.2	H 399 7	H 1 211 9
2012	134.5 137.2	274.3	34.7	12.8	7.9 8.2	1.2 3.2	130.4	187.2	0.0	28.5	24.4	0.0	_ (s)	182.1	R 831.0 R 838.4	R 376.8 R 359.2	R 1,207.7 R 1,197.6
2013	137.2	285.6	34.3	13.5	8.2	3.2	126.1	185.3	0.0		25.5	0.0	R (s)	175.3	R 838.4	R 359.2	R 1,197.6
2014	136.8	326.8	37.4	14.4	5.1	2.2	120.4	179.5	0.0	29.6	29.9	0.0	R (s) R (s)	173.4	H 876 0	R 351.5 R 340.8 R 336.8	R 1,227.5 R 1,194.7 R 1,186.7
2015 2016	129.2 112.3	306.1 310.7	35.5 33.9	13.2 12.9	8.0 7.9	2.7 3.8	128.0 137.1	187.3 R 195.8	0.0 0.0	28.5 28.2	30.3 31.3	0.0 0.0	R (s)	172.5 171.6	R 854.0 R 849.9	" 340.8 B 226.9	11,194.7 B 1 196 7
2016	112.3	310.7	36.7	12.9	7.9 8.0	2.6	137.1	191.2	0.0	28.2 23.7	32 6	0.0	R (s)	171.6	R 847.6	H 330 5	H 1 178 2
2017	114.1	352.5	37.3	12.1	8.2	2.4	129.9	189.8	0.0		33.8	0.0	R (s)	174.8	R 886.6	R 321.8	H 1.208.4
2019	113.5	2/1 1	30.6	12.3	8.1	1.8	131.5	18/13	0.0	21.7	33.2	0.0	Roit	171.5	R 865.5	R 301 4	R 1.166.9
2020	93.2	R 325 8	36.6	12.9	8.1	2.1	R 122.9 R 120.2	R 182.7 R 178.5	0.0	21.6	28.2	0.0	R 0.1 R 0.1	159.8 169.0	R 811.5 R 857.1	R 275.3 R 288.0	R 1,086.8 R 1,145.1
2021 2022	104.9 92.6	R 354.0 353.0	34.5 34.9	13.4 15.8	8.1 8.4	2.3 2.4	H 120.2 123.4	H 178.5 184.9	0.0	20.1 18.9	30.9	0.0	H 0.1 0.1	169.0 170.8	H 857.1 854.6	H 288.0 282.2	H 1,145.1
2022	92.6	353.0	34.9	15.8	8.4	2.4	123.4	184.9	0.0	18.9	34.5	0.0	0.1	170.8	854.6	282.2	1,136.8

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: · Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. · The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Ohio

_							Pe	etroleum							
		Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
) <u>Y</u> e	ear	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	0	444 87	9	1,395	7,987 9,722	36 94	1,808	1,381	74,274	310	87,192	91 57			
1969 1970	5	87 48	11 12	2,125 712	9,722 11,068	94 133	3,075 5,857	1,263 1,241	83,101	633 758	100,013	57 54			
197	υ 5	46	9	491 473	15,647	180	5,657	1,622	103,970 116.333	756 592	123,739 140,790 144,198	54 45			
1980	Ω	Ó	11	473	24,578	180 225	5,926 7,219	1,425	116,333 110,021	592 255	144,198	45 46			
1989 1990	5 n	0	8 10	330 239	22,418 24,495	379 358	7,204 10,602	1,297 1,459	107,086 108,455	0	138,713 145,613	46 44		==	
199	5	0	18	235	27.993	256	11.236	1 392	114 584	56	155 753	49			
200	0	0	19	218	38,414 42,707	145 268	18,655 18,615	1,487 1,255	120,065 122,074	12	178,997 185,028	53 48			
200	5 6	0	14 13	109	42,707 45.037	268 262	18,615 18,486	1,255 1,222	122,074	0	185,028	48 44			
200	7	0	14	331 327	45,037 47,104	198	18,145	1,262	121,470 121,717	3	188,757	48			
2008	8	0	11	189	42,629	406	17,998	1,172	119,644	0	186,808 188,757 182,038 171,171	47			
2009 2010	9 n	0	17 16	217 150	38,183 40,680	253 42	12,744 5,758	1,054 942	118,720 119,245	0	1/1,1/1 166,816	39 36			
201	1	Ö	14	140	42.193	41 32	5.545	904	115 961	Ö	404 705	34			
2012		0	10	124	39,632	32	4,711	904 820 865	115,598 116,955	0	160,918	34			
2013 2014	3 4	0	10 15	111 106	40,955 42,633	44 53	4,698 5,143	865 898	116,955 117,474	0	163,628 166,308	44 42			
201	5	ŏ	20	79	42,406	44 53 72	5,584	971 R 906	116,337	(s) 6	_ 165,455	40			
2010	6	0	19	80	40.731	91	6,105	R 906 R 834	117,317	1	164,785 160,918 163,628 166,308 165,455 R 165,231 R 164,569 R 165,553 R 163,772	41			
201 201	/ R	0	30 29	92 85	40,967 42,199	34 63	5,459 6,374	H 834 R 705	117,183 116,030 114,841	0 7	11 164,569 R 165 553	39 36 38			
2019	9	ŏ	_ 33	95	42,199 42,192	163	5.700	R 795 R 758	114,841	24	R 163,772	38			
2020	0	0	R 46	92 85 95 82 92	40,194 R 39,690	64 87	5,546 7,149	R 669 R 696	99,148	11	R 145,715 R 155,453	35 37			
202 202	2	0	33 R 46 R 52 55	92 95	37,902	90	7,149 9,314	715	107,046 105,427	11 11	154,234	34			
		•							illion Btu		,	•			
1960	n	11.0	9.4	7.0	46.5	0.1	9.8	8.4	390.2	2.0	464.0	0.3	484.7	R 0.6	R 485 4
1960 1969	5	2.1	11.4	10.7	56.6	0.4	17.0	8.4 7.7	436.5	4.0	532.9	0.2	546.7	R <sub>0.4</sub>	R 485.4 R 547.0
1970 1975	0	1.1	12.3 9.2	3.6 2.5	64.5	0.5	32.8 33.3	7.5 9.8	546.2 611.1	4.8	659.8	0.2	673.4	0.4 R 0.3	673.8 R 762.0
197	5 N	0.1 0.0	9.2 11.6	2.5	91.1 143.2	0.7 0.9	33.3 40.6	9.8 8.6	577.9	3.7 1.6	752.2 775.3	0.2	761.7 787.0	H 0.3	762.0 787.4
198	5	0.0	8.6	2.4 1.7 1.2	130.6	1.5	40.6	7.9	562.5	0.0	775.3 744.7 783.8	0.2 0.2	757.9	R 0.3 R 0.3 R 0.3	787.4 R 758.2 R 803.3
1990 1990	0	0.0 0.0	10.5 18.5	1.2	142.7 162.9	1.4 1.0	59.9 63.7	8.9 8.4	569.7 596.3	(s) 0.4	783.8 833.9	0.2 0.2	803.0 852.6	H 0.3	H 803.3
200	o N	0.0	19.8	1.2 1.1	223.5	0.6	105.8	9.0	624.5	0.4	964.5	0.2	984.5	0.4 0.4	853.0 984.9
200	5	0.0	14.4	0.6	248.5	1.0	105.5	7.6	633.8	0.0	997 0	0.2	1.012.1	0.4	1 012 5
200	6	0.0 0.0	13.1 14.6	1.7 1.7	261.4 272.5	1.0 0.8	104.8 102.9	7.4 7.7	629.8 625.9	(s) (s)	1,006.1 1,011.3	0.1 0.2	1,020.9 1,028.1	0.3 0.4	1,021.2 1,028.5
200	, 8	0.0	11.9	1.7	246.4	1.6	102.0	7.7	610.9	0.0	969.0	0.2	982.9	0.4	983.2
2009	9	0.0 0.0	17.4 16.5	1.1	220.6 234.9	1.0	72.3 32.6	6.4 5.7	604.3 604.2	0.0	905.6 878.4	0.1	923.1 895.1	0.3 0.3	923.4 895.3
2010 201	0	0.0 0.0	16.5 14.8	0.8 0.7	234.9 243.5	0.2 0.2	32.6 31.4	5.7 5.5	604.2 587.1	0.0 0.0	878.4 868.4	0.1 0.1	895.1 883.3	0.3	895.3 883.5
201		0.0	10.0	0.6	228.6	0.2	26.7	5.0	585.2	0.0	846.2	0.1	856.2	0.3 0.2 0.3	856.5
2013	3	0.0	10.7	0.6	236.0	0.2	26.6	5.2	591.8	0.0	846.2 860.4	0.2	871.3	0.3	871.6
2014 2015		0.0 0.0	16.2 21.8	0.5 0.4	245.7 244.3	0.2 0.3	29.2 31.7	5.4 5.9	594.3 588.3	(s) (s)	875.3 870.9	0.1 0.1	891.7 _ 892.8	0.3 0.3	892.0 893.1
2010	6	0.0	19.9	0.4	234.5	0.4	34.6	5.5	593.0	(s)	868.4	0.1	H 888.5	0.3	888.7
201	7	0.0	31.9	0.5	235.8	0.1	31.0	5.5 R 5.1	592.1	0.0	864.6	0.1	896.6	0.3	896.9
2018		0.0	31.1	0.4	243.0	0.2	36.1	4.8	586.4 580.2	(s) 0.2	871.1	0.1	902.3	0.2	902.5
2019 2020	0	0.0 0.0	R 48.8	0.5 0.4	243.0 231.4 R 228.8	0.6 0.2	32.3 31.4	4.6 P 4.1	580.2 500.9	0.2 0.1	861.3 768.5	0.1 0.1	R 817.4	0.2	896.5 R 817.6
202	1	0.0	34.9 R 48.8 R 56.1 59.0	0.4 0.5 0.5	R 228.8	0.2 0.3 0.3	31.4 40.5	R 4.2 4.3	540.6	0.1	768.5 R 818.6	0.1	896.3 R 817.4 R 874.8 871.6	0.2 0.2 0.2 0.2	R 875.0
202	2	0.0	59.0	0.5	218.5	0.3	52.8	4.3	532.3	0.1	812.5	0.1	871.6	0.2	871.8
_															

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Ohio

				Petro	leum				Biomass				<b>-</b> 1	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	lowatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	21,559	3	107	0	94	201	0	7		0	NA	NA	0	
1965 1970	24.923	3	119	0	105	223	22	10		0	NA	NA	0	
1970 1975	35,321 47,321	21 6	791 2,568	0	697 1,312	1,487 3,880	0	7		0	NA NA	NA NA	0	
1980	48,537	5	1.643	0	605	2,248	2,119	6		0	NA NA	NA NA	0	
1985	46,700	1	508	0	141	649	1,943	175		0	0	0	0	
1990	48,848	1 7	452 642 792	0	136	588 642	10,664 16,768	181 232 583		0	0	0	0	
1995 2000	49,785 55,734	10	542 702	0	0 13	804	16,781	232 583		0	0	0	0	
2005	59,607	28	723	1,846	0	2,569	14.803	516		ő	ő		-348	
2006	58,604	28 23 37	723 584 591	1,836	0	2,420	16,847	632		0	0	13 14	619	
2007 2008	59,452 58,953	37	591 526	1,500 1,900	0	2,092 2,426	15,764 17,514	410 386		0	0	15 15	306	
2008	50,953 51,096	23 38	526 484	1,770	0	2,426 2,254	17,514	528		0	0	14	4	
2010	53,712	58	549	1,932	ŏ	2,481	15,805	429		ŏ	13	13	Ö	
2011	48,140	58 93 172	549 585 517	2,017	0	2,602	14,890	384		0	15	197	0	
2012	37,119 40,623	1/2 161	51/	2,339	0	2,855 3,064	17,087	414 549		0	36	973 1.117	0	
2013 2014	38,417	175	462 592	2,602 2,080	0	2,672	16,121 16,284	478		0	43 51	1,118	0	
2015	30,518	208	416	2,360	Ö	2,776	17,377	457		Ö	51	1,169 1,191	0	
2016	29,057	213	421	2,150	0	2,570	16,817	500		0	61	1,191	2	
2017	28,523 25,121	207	368 446	1,901	0	2,269 3,195	17,688 18,315	277 244		0	100	1,530	17 81	
2018 2019	19,595	323 364	446 311	2,748 1,579	0	1,890	17,011	403		0	114 136	1,684 1,968	0	
2020	18,761	373	226	2.581	0	2,807	18,219	374		0	160	2,207	0	
2021 2022	19,030 18,087	389 477	317 828	2,317 2,076	0	2,635 2,904	17,483 16,827	578 507		0	665 914	2,496 3,049	0	
	10,007	411	020	2,070	-		Trillion Btu	307		0	314	3,043	0	
1960	512.5	3.1	0.6	0.0				B (-)	0.1	0.0	NA	NA		540.0
1960	512.5 587.3	3.1	0.6 0.7	0.0	0.6 0.7	1.2 1.3	0.0 0.3	R (s) R (s)	0.1 0.1	0.0 0.0	NA NA	NA NA	0.0 0.0	516.9 R 592.0
1970	794.7	21.9 5.3	4.6	0.0	4.4	9.0 23.2	0.0 0.0	R (s) R (s)	0.1	0.0	NA	NA	0.0 0.0	825.7 1,065.8
1975	1,037.2	5.3	14.9	0.0	8.2	23.2	0.0	R (s)	(s)	0.0	NA	NA	0.0	1,065.8
1980 1985	1,110.5 1,103.3	4.7 0.7	9.6 3.0	0.0 0.0	3.8 0.9	13.4	23.1 20.6	R (s) R 0.6	(s) 2.8	0.0 0.0	NA 0.0	NA 0.0	0.0 0.0	<sup>n</sup> 1,151.4 R 1 121.9
1990	1,161.4	1.3	2.6	0.0	0.9	3.8 3.5	112.8	Ros	3.6	0.0	0.0	0.0	0.0	R 1,151.4 R 1,131.8 R 1,283.2
1995	1,206.9	7.6	2.6 3.7 4.6	0.0	0.0	3.7	176.2	Ros	0.6	0.0	0.0	0.0	0.0	R 1,395.9 R 1,505.5
2000	1,312.5	10.3	4.6	0.0	0.1	4.7	175.0	R 2.0	1.0	0.0	0.0	0.0	0.0	H 1,505.5
2005 2006	1,373.0 1,337.2	28.8 23.9	4.2 3.4	10.6 10.5	0.0 0.0	14.8 13.9	154.5 175.8	R 1.8 R 2.2	1.1 1.1	0.0 0.0	0.0 0.0	R (s) R (s)	-1.2 2.1	H 1,509.5 H 1,572.7 H 1,556.2 H 1,569.2 H 1,548.3 H 1,385.9 H 1,475.2 H 1,374.8 H 1,263.2
2007	1,349.9	38.5	3.4	8.6	0.0	12.0	165.3	H <sub>1</sub> / <sub>A</sub>	1.0	0.0	0.0	0.1	1.0	R 1.569.2
2008 2009	1,322.2	38.5 24.3 38.9	3.4 3.0 2.8 3.2 3.4	10.9	0.0	12.0 13.9	183.1	R 1 3	3.5	0.0	0.0	0.1	0.0 (s) 0.0	R 1,548.3
2009	1,170.2	38.9	2.8	10.1	0.0	12.9	159.0	R 1.8 R 1.5	3.0	0.0	0.0	R (s) R (s) R 0.7	(s)	H 1,385.9
2010 2011	1,230.4 1,102.7	59.8 95.5	3.2	11.1 11.5	0.0 0.0	14.2 14.9	165.2 155.8	R 1.3	4.0 3.8	0.0 0.0	R (s) R 0.1	R 0.7	0.0	11,475.2 R 1 374.8
2012	881.1	175.9	3.0	13.4	0.0	16.4	179.1	H 1.4	6.1	0.0	R n 1	Наа	0.0	R 1.263.2
2013	963.4	166.8	2.7 3.4 2.4	14.9	0.0	17.5	168.5	R19	6.7	0.0	R n 1	Rag	0.0	R 1,328.6 R 1,297.2
2014 2015	917.0 734.3	182.5 220.7	3.4	11.9 13.5	0.0 0.0	15.3 15.9	170.3 181.7	R 1.6 R 1.6	6.6 6.7	0.0	R 0.2 R 0.2	R 3.8 R 4.0	0.0 0.0	H 1,297.2
2015	734.3 711.8	220.7	2.4	12.3	0.0	14.7	181.7	R 1 7	6.3	0.0 0.0	R <sub>0.2</sub>	R 4.1	(s)	R 1,164.9 R 1,139.8
2017	700.7	219.7	2.1 2.6	10.9	0.0	13.0	185.0	R 0.9	6.6	0.0	Roa	R 5.2	0.1	H 1 121 /
2018	603.7	341.4		15.7	0.0	18.3	191.5	H 0.8	6.7	0.0	R 0 4	R 5.7	0.3	R 1,168.7 R 1,070.2
2019 2020	480.8 463.6	386.1 396.2	1.8	9.0	0.0 0.0	10.8 16.1	177.6 190.3	R 1.4 R 1.3	6.4 5.9	0.0 0.0	R 0.5 R 0.5	R 6.7	0.0 0.0	H 1,070.2
2020	463.6 471.0	396.2 412.7	1.3 1.8	14.8 13.3	0.0	15.1	R 182.3	R 2.0	5.9 5.8	0.0	R 2.3	R 7.5 R 8.5	0.0	R 1 098 8
2022	446.9	504.4	4.8	11.9	0.0	16.6	175.5	1.7	4.7	0.0	3.1	10.4	0.0	R 1,070.2 R 1,081.3 R 1,098.8 1,162.5
														,

a Includes supplemental gaseous fuels that are commingled with natural gas.

Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical

Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Oklahoma

						Petroleum								1
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				Mi	llion kilowatthou	rs	Thousan	d barrels
1960	77	308	2,618	6,433	2,920	22,708	1 454	11,670	47,803	0	705	0	NA	NA
1965	30 7	468	2.877	7.654	3.453	25,815	1,454 851	14,560	55,209	0	825	0	NA NA	NA NA
1970	7	597	5,584	9,618	4,378	32,521	807	15,675	68,583	0	1,406	0	NA	NA
1971 1972	7	612 630	5,477	9,167 9,706	4,378 4,143	33,711 35,754	617 1,418	15,901 15,011	69,251 73,977	0	1,383 1,447	0	NA NA	NA NA
1973	175	612	7,944 8,951	9,677	4,017	37.437	1,499	15,882	77 462	0	3.761	0	NA NA	NA NA
1974	181 23 73 675	660	8,849	9,087	4,001	36,997	1,216	15,925	76,075 78,585	Ō	3,590	Ö	NA	NA
1975	23	669	9,449	9,342	3,916	38,469	641	16,767	78,585	0	2,945	0	NA	NA
1976 1977	/3 675	760 767	11,856 12,965	9,490 9,508	3,967 4,183	40,477 41,903	672 781	15,549 16,002	82,011 85,342	0	1,541 1,749	0	NA NA	NA NA
1978	2.463	770	14,513	10.179	4,750	43.763	1.028	15,913	90.145	0	1.763	0	NA NA	NA NA
1979	3,382	825	14,560	8,437	4,564	41,279	888	16,715	86,443	0	2.323	Ö	NA	NA
1980	6,046	722	12,125	8,987	4,900	39,633	732	16,188	82,565	0	1,315 1,122	0	NA	NA
1981 1982	9,048 11,781	671 677	15,488 14,512	7,145 8,073	5,009 5,911	41,673 43,409	741 676	10,834 10,249	80,891 82,831	0	1,122 2,090	0	104 368	NA NA
1983	12,629	629	16.589	8 122	5.974	42 731	516	11,966	85.899	0	2,500	0	176	NA
1984	12,629 13,254	653	18,307	7.138	7,017	41,908	358	10,087	85,899 84,815	0	2,500 2,339	Ō	53	NA
1985	13,602	587	18,723	8,035 5,950	5,870	42,170 40,568	219	10,322	85.338	0	3,980	0	48	NA
1986 1987	12,395 13,476	554 596	13,947 14,374	5,950 5,487	5,942 7,440	40,568 38,731	393 332	9,633 9,911	76,433 76,276	0	2,951 2,948	0	59 0	NA NA
1988	15,006	589	15,118	4,911	7,440	38,806	660	11,753	78,473	0	2,045	0	0	NA NA
1989	15,086	603	14.948	5,681	9.239	38.888	391	11.352	80.501	0	2.392	0	0	NA
1990	15,514 17,263	612	15,473 14,075	3,289 4,878	7,832 10,569	38,998 38,816	623 241	12,271 11,124	78,485 79,703	0	2,731 1,922	0	0	NA
1991 1992	17,263 18,311	578 551	14,075 15,945	4,878 4,502	10,569 12,948	38,816	621	11,124 11,875	79,703 85,774	0	1,922	0	0	NA NA
1993	19,920	585	16,029	5,687	9,012	40,814	704	12,216	84,462	ő	3,242 4,357	ő	ő	NA
1994	18.854	579	16.287	5 626	10 345	41.524	548	11.950	86 281	0	2.515	0	0	NA
1995	20,742	575	16,672	3,625 4,076	5,359 4,707	42,382	442 392	11,427	79,906 84,898	0	2,780 2,158	0	0	NA
1996 1997	21,141 22,178	574 567	19,948 20,917	4,076 4,693	4,707 5,250	43,763 42,670	269	12,013 10,778	84,898 84 586	0	2,158	0	0	NA NA
1998	20.711	576	21.640	3,821	5,259 5,348	43,349	102	11.244	84,586 85,505	ŏ	2,921 3,509	ő	0	NA
1999	20,288 21,422	538	22,151 28,249	9.198	6,576	43.571	111	10,735 10,700	92.343	0	3,175 2,277	0	0	NA
2000	21,422	539	28,249	5,862	6,812	42,325	237	10,700	94,185	0	2,277	0	0	NA
2001 2002	21,224 22,090	491 508	35,302 30,752	5,306 7,343	7,041 6,434	43,027 42,224	343 461	14,696 13,721	105,714	0	2,345 1,988	0	0	7 11
2003	22,283	540	30.637	5.472	6,240	43,361	513	13,551	100,935 99,774	Ŏ	1.798	54	0	9
2004 2005	21,008	539 583	22,757 28,020	7,348 10,840	6.898	45,338 45,150	623 224	14 430	97,394 104,817	0	2,977 2,630	573	0	18 60
2005 2006	22,680	583 624	28,020	10,840 14,870	5,964	45,150	224 246	14,620	104,817	0	2,630 624	848	1,039 1.038	60 171
2006	21,923 21,295	658	31,954 33,776	3,656	5,661 5,295	43,675 45,385	320	14,576 15,496	110,981 103,928	0	3,066	1,712 1,849	2,032	232
2008	22.670	688	35 118	3.077	5 591	44 528	420	12.494	101 227	ő	3.811	2.358	3.801	199
2009	21,589	659	29,439 30,247	2,717	6,447 6,375	43,998 45,766	305 542	12,279	95,184 98,958	0	3,553	2,698	3,472	211
2010	20,013	676	30,247	3,005	6,375	45,766	542	13,024	98,958	0	2,809	3,808	3,628	171
2011 2012	21,932 18,923	656 692	30,667 30,699	2,794 2,281	6,365 6,603	43,024 45,205	586 611	12,687 13,458	96,123 98,857	0	1,507 1,146	5,605 8,158	3,559 3,703	582 572
2013	19,428	659	29 475	2 760	6 522	44.435	514	12 713	96 420	ŏ	2 178	11.162	3 520	875
2014	19,428 19,434 16,249	642	32,598 30,888	2,960 2,755	7,498 7,185	44,435 47,236 46,371	483 312	11,568 12,512	102,342 100,023	Õ	1,428 2,664	11,937	4,051 4,445	875 878 737
2015 2016	16,249	679 702	30,888 30,348	2,755 2,556	7,185	46,371	312 411	12,512 B 12,201	100,023	0	2,664	14,031	4,445 4.455	737 1,073
2016	12,761 11,413	702 664	30,348 34,802	2,556 2,862	7,163 7,650	47,021 45,797	411 506	R 12,301 R 12,054	R 99,800 R 103,670	0	2,573 2,036	20,069 23,599	4,455 4,387	1,073 1,040
2018	9,897	816	33.285	3.286	7,816	46.820	367	H 11 729	H 103 303	0	2.035	27.338	4.438	883
2019	9,897 5,446	846	31,089	3,521	7,101	46,131	378	H 12.023	R 100,243 R 90,959	Õ	3,903	29,008	4,441	883 R 657
2020	4,127	R 819	27,551	3,350	6,046	42,121	237	H 11.654	H 90,959	0	2,854	29,417	4,050	778 B 700
2021 2022	7,583 6,055	R 725 757	R 30,422 30,781	3,354 3,355	7,845 8,017	45,050 44,685	426 436	R 11,700 11,988	R 98,797 99,262	0	2,766 1,770	32,540 37,553	4,356 4,356	778 R 730 738

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Oklahoma (trillion Btu)

_		T			Fossil	fuels						Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	1.8	319.3	15.3	24.6	15.7	119.3	9.1	70.7	254.7	575.8	319.3	15.3	119.3
1965 1970	0.7	480.1	16.8	29.3	18.7	135.6 170.8	5.4	88.7	294.4 365.2	775.2	480.1	16.8	135.6
1970	0.2	616.3	32.5	36.5	24.0	170.8	5.1	96.2	365.2	981.6	616.3	32.5	170.8
1971 1972	0.2 0.2	631.2 649.9	31.9 46.3	34.8 36.8	24.0 22.7	177.1 187.8	3.9 8.9	98.1 92.5	369.7 395.0	1,001.0 1,045.1	631.2 649.9	31.9 46.3	177.1 187.8
1972	4.1	625.8	52.1	36.6 36.5	22.7	107.0	0.9 9.4	92.5 97.9	414.8	1,044.7	625.8	40.3 52.1	196.7
1973 1974	4.2	681.1	51.5	36.5 34.2	22.1 22.0	196.7 194.3	9.4 7.6	98.6	408.3	1,093.6	681.1	52.1 51.5	194.3
1975	0.5 1.5	678.9	55.0	35.2	21.5	202.1 212.6 220.1	4.0	103.8	421 7	1 101 1	678.9 770.8	55.0 69.1 75.5	202.1 212.6
1976 1977	1.5	770.8	69.1 75.5	35.8 35.7	21.9	212.6	4.2	96.0	439.5 457.9	1,211.8 1,258.0	770.8	69.1	212.6
1977	12.4	787.7	/5.5 84.5	35.7	23.0	220.1	4.9	98.6 97.9	457.9	1,258.0	787.7	/5.5	220.1
1978 1979	43.7 60.4	788.7 844.3	84.8	38.0 30.6	26.2 25.1	229.9 216.8	6.5 5.6	102.8	483.0 465.7 442.5	1,315.3 1,370.4	788.7 844.3	84.5 84.8	229.9 216.8
1980	106.3	738.9	70.6	32.4	26.9	208.2	4.6	99.8	442.5	1 287 8	738.9	70.6	208.2
1981	157.7	694.5	90.2	25.8	27.6	218.9	4.7	68.3	435.5	1,287.7	694.5 692.3	90.2	218.9
1982	203.8	692.3	84.5	29.0	32.8	228.0	4.3	64.5	443.1	1.339.3	692.3	84.5	228.0
1983 1984	219.3	655.4	96.6	29.3 25.2	33.1 39.0	224.5 220.1	3.2	75.2	461.9 456.0	1,336.6	655.4 669.3	96.6	224.5 220.1
1984	230.9 237.2	669.3 603.9	106.6	25.2 28.5	39.0 32.5	220.1 221.5	2.3 1.4	62.8 65.3	458.2	1,356.2 1,299.3	603.9	106.6 109.1	220.1 221.5
1986	217.9	570.7	109.1 81.2 83.7	28.5 21.4 19.8	32.9	221.5 213.1 203.5	2.5	61.0	412.1	1,200.8	570.7	109.1 81.2 83.7	213.1
1986 1987	240.7	617.6	83.7	19.8	41.4	203.5	2.5 2.1	61.8	412 4	1.270.6	617.6	83.7	213.1 203.5
1988 1989	269.4 270.3	611.2	88.1 87.1	17.8 20.7	40.2	203.8 204.3	4.2 2.5	73.1 69.9	427.1 436.0	1,307.7 1,326.7	611.2	88.1 87.1	203.8 204.3
1989 1990	270.3 278.8	620.3 628.2	87.1 90.1	20.7 12.0	51.7 43.8	204.3 204.9	2.5 3.9	69.9 75.9	436.0 430.6	1,326.7 1,337.6	620.3 628.2	87.1 90.1	204.3 204.9
1990	312.7	590.0	82.0	17.5	59.1	203.9	1.5	69.3	433.2	1,335.9	590.0	82.0	203.9
1992	328.3	565.7	92.9	16.1	72.8	209.5	3.9	73.0	468.2	1,362.2	565.7	92.9	209.5
1993 1994	355.8	600.1	93.4	20.1	50.5	212.9	4.4	75.9	457.3	1,413.2	600.1	93.4	212.9
1994	333 4	595.7	94.8	20.1	58.1	216.5	3.4	74.1	467.1	1,396.2	595.7	94.8	216.5
1995 1996	369.9 373.1	586.4 588.0	97.0 116.1	13.1 14.8	30.3	220.6 228.0	2.8 2.5	70.7 73.8	434.5 461.9	1,390.8 1,422.9	586.4 588.0	97.0 116.1	220.6 228.0
1996	373.1	588.U 573.5	110.1	14.8	26.7	228.0 222.1	2.5 1.7	73.8 65.6	457.8	1,422.9	588.U 573.5	110.1	228.0 222.1
1998	370.1	573.5 584.0	121.7 125.9	14.0	29.8 30.3	225.5	0.6	65.6 69.2	465.6	1,423.7 1,419.6	584.0	121.7 125.9	225.5
1999	360.6	550.8	128.9	14.0 32.7	37.3	225.5 226.7	0.7	65.6	491.9	1.403.3	573.5 584.0 550.8	128.9	226.7
2000	381.1	546.7	164.4	21.4	38.6	220.1 223.8	1.5	65.7	511.7	1,439.5	546.7	164.4	220.1
2001	376.1	505.2	205.4	19.4	39.9	223.8	2.2	91.0	581.7	1,463.0	505.2 522.5	205.4	223.8
2002 2003	391.4 393.8	522.5 556.3	178.9 178.3	26.7 20.0	36.5 35.4	219.5 225.3	2.9 3.2	84.8 83.2	549.3 545.5	1,463.2 1,495.6	522.5 556.3	178.9 178.3	219.5 225.3
2004	372.1	555.3	132.4	26.2	39.1	235.6	3.9	89.6	526.8	1.454.2	555.3	132.4	235.6
2005	397.4	600.0	163.0	38.2	33.8	235.6 230.8 222.9	1.4	90.6	557.8	1,555.2	600.0	163.0	234.4
2006	384.4	644.4	185.4	51.9	32.1	222.9	1.5	89.7	583.5	1,612.3	644.4	185 4	226.5
2007 2008	373.2 391.7	677.5 711.4	195.4 203.0	13.7 11.6	30.0 31.7	226.3 214.2	2.0 2.6	96.1 77.0	563.5 540.1	1,614.2 1,643.2	677.5 711.4	195.4 203.0	233.4 227.4
2008	373.3	681.1	168.3	10.3	36.6	211.9	2.0 1.0	77.0 75.4	540.1	1,043.2	681.1	203.0 170.1	227. <del>4</del> 224.0
2010	346.0	697.4	173.5	10.3 11.5	36.1	219.3	1.9 3.4	75.4 79.9	523.8	1,558.7 1,567.2	697.4	174.7	224.0 231.9
2011	378.3	676.9	173.9	10.7	36.1	205.5	3.7	77.6	507.6	1.562.8	676.9	176.9	217.8
2012	327.1 335.9	712.4	174.1 164.8	8.8	37.4	216.0 212.6	3.8	82.7	522.8 506.0	1,562.3 1,524.2	712.4 682.3	177.0	228.8
2013 2014	335.9 336.1	682.3 667.4	164.8 182.7	10.6 11.4	37.0 42.5	212.6	3.2 3.0	77.8 70.8	506.0	1,524.2 1,538.7	682.3 667.4	169.9 187.0	224.8 230.0
2014	280.7	711.4	172.5	10.6	42.5	224.9 219.1	2.0	70.6 76.8	535.3 521.7	1,513.8	711.4	187.9 178.0	239.0 234.5
2016	221.8	736.2	167.6	9.8	40.6	222.2	2.6	76.8 R 77.4	520.2	1 /78 2	736.2	174.7	237.7
2017	198.3	692.1	167.6 193.3	11.0	43.4	222.2 216.2	3.2	R 75.8	520.2 R 542.8 R 539.7	R 1 // 22 2	692.1	200.4	231.4
2018	171.3	842.2	185.5	12.6	44.3	221.2	23	H 73.8	H 539.7		842.2	191.7	236.6
2019 2020	94.0 70.7	873.7 R 844.9	173.4 _ 152.8	13.5 12.9	40.3 34.3	217.6 198.7	2.4 1.5	R 75.8 R 73.8 R 75.5 R 73.0	R 522.6 R 473.2	R 1,490.3 R 1,388.8	873.7 R 844.9	179.0 158.6	233.1 212.8
2020	70.7 131.7	R 745.9	R 172.8	12.9	34.3 44.5	212 4	1.5	R 73.3	R 516.2	R 1,393.8	R 745.9	158.6 R 175.4	212.8 227.5
2021 2022	106.9	782.2	174.9	12.9	45.5	212.4 210.4	2.7 2.7	75.2	519.3	1,408.4	782.8	177.5	227.5 225.6

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Oklahoma (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 2.4	10.2	NA	NA	NA	NA	10.2	0.0	NA	NA	R 12.6 R 10.4	R -18.1	0.0	R 570.3
1965 1970	0.0 0.0	R 2.8 R 4.8	7.6 7.0	NA NA	NA NA	NA NA	NA NA	7.6 7.0	0.0 0.0	NA NA	NA NA	R 11 0	R -26.4 R -75.1	0.0 0.0	R 759.2 R 918.2
1971	0.0	R 4.7	6.8	NA	NA	NA	NA	6.8	0.0	NA	NA	H 11 6	R -69.7 R -67.1	0.0	R 942.8
1972 1973	0.0 0.0	R 4.9 R 12.8	11.7 11.7	NA NA	NA NA	NA NA	NA NA	11.7 11.7	0.0 0.0	NA NA	NA NA	R 16.6	n -67.1 R -60.3	0.0 0.0	R 994.6 R 999.9
1974	0.0	H 122	11.3	NA	NA	NA	NA	11.3	0.0	NA	NA	R 24.5 R 23.6	R -69.3 R -81.8	0.0	n 1 035 4
1975 1976	0.0 0.0	R 10.0 R 5.3	12.0 13.3	NA NA	NA NA	NA NA	NA NA	12.0	0.0 0.0	NA NA	NA NA	Н 22 О	R -81.4 R -94.0	0.0 0.0	R 1,041.8 R 1,136.3
1976	0.0	R 6.0	14.5	NA NA	NA NA	NA NA	NA NA	13.3 14.5	0.0	NA NA	NA NA	R 18.6 R 20.5	H -75 2	0.0	H 1.203.2
1978	0.0	R 6.0	19.1	NA	NA	NA	NA	19.1	0.0	NA	NA	H 25.2	H -101.8	0.0	R 1.238.7
1979 1980	0.0 0.0	R 7.9 R 4.5	22.8 11.2	NA NA	NA NA	NA NA	NA NA	22.8 11.2	0.0 0.0	NA NA	NA NA	R 30.7 R 15.7	R -106.2 R -118.7	0.0 0.0	R 1,294.9 R 1,184.8
1981	0.0	H 3.8	11.8	0.4	NA	NA	0.0	11.2 12.2	0.0	NA	NA	R 15.7 R 16.0	R -118.7 R -84.8	0.0	H 1 218 9
1982 1983	0.0 0.0	R 7.1 R 8.5	14.3 12.9	1.3 0.6	NA NA	NA NA	0.0 0.0	15.6 13.5	0.0 0.0	NA NA	NA 0.0	R 22.7	R -81.9	0.0 0.0	R 1,280.0 R 1,275.5
1984	0.0	H 8 0	15.3	0.2	NA	NA	0.0	15.5	0.0	0.0	0.0	R 22.1 R 23.4 R 29.2	R -83.1 R -93.5	0.0	R 1,286.2 R 1,265.5
1985	0.0	R 13.6 R 10.1	15.4 14.4	0.2 0.2	NA NA	NA NA	0.0 0.0	15.6	0.0	0.0 0.0	0.0 0.0	H 29.2	R -63.0	0.0 0.0	H 1,265.5 H 1,171.1
1986 1987	0.0 0.0	H 10.1	14.4 15.3	0.2 0.0	NA NA	NA NA	0.0	14.6 15.3	0.0 0.0	0.0	0.0	R 24.6 R 25.3 R 23.0 R 33.6	R -54.3 R -65.9	0.0	R 1,230.0
1988	0.0	R 7.0	16.0	0.0	NA	NA	0.0	16.0	0.0	0.0	0.0	R 23.0	H -62 7	0.0	<sup>n</sup> 1.268.0
1989 1990	0.0 0.0	R 8.2	25.3 21.4	0.0 0.0	NA NA	NA NA	0.0 0.0	25.3 21.4	(s)	0.1 0.1	0.0 0.0	n 33.6 R 30.8	R -63.3 R 5.6	0.0 0.0	R 1,296.9 R 1,374.0
1991	0.0	R 9.3 _R 6.6	21.1	0.0	NA	NA	0.0	21.1	(s) (s)	0.1	0.0	R 30.8 R 27.7	H -54 3	0.0	<sup>n</sup> 1.309.4
1992 1993	0.0 0.0	R 11.1 R 14.9	19.7 22.9	0.0 0.0	NA NA	NA NA	0.0 0.0	19.7 22.9	(s)	0.1 0.1	0.0	R 30.8	R -74.5 R -79.6	0.0 0.0	R 1,318.5 R 1,371.5
1993	0.0	Hoc	24.1	0.0	NA NA	NA NA	0.0	24.1	(s) (s)	0.1	0.0 0.0	R 37.9 R 32.8 R 34.1	H -127	0.0	H 1 386 2
1995	0.0	R 9.5	24.5	0.0	NA	NA	0.0	24.5	(s)	0.1	0.0	R 34.1	R -65.7	0.0	H 1.359.3
1996 1997	0.0 0.0	R 7.4 R 10.0	29.3 25.3	0.0 0.0	NA NA	NA NA	0.0 0.0	29.3 25.3	(s) (s)	0.1 0.1	0.0 0.0	R 36.7 R 35.3	R -35.5 R -33.4	0.0 0.0	R 1,424.1 R 1,425.6
1998	0.0	H 12 0	24.7	0.0	NA	NA	0.0	24.7	(s)	0.1	0.0	H 36 8	H -29 8	0.0	R 1.426.6
1999 2000	0.0 0.0	R 10.8 R 7.8	22.8 24.1	0.0 0.0	NA NA	NA NA	0.0 0.0	22.8 24.1	(s) (s)	0.1 0.1	0.0 0.0	R 33.7 R 31.9	H -25.3	0.0 0.0	R 1,411.6 R 1,471.3
2000	0.0	R 8.0	24.1	0.0	(s)	NA NA	0.0	24.1	(S)	0.1	0.0	R 32.2	(s) R -3.1	0.0	R 1 492 1
2002	0.0	R 6.8	20.6	0.0	0.1	NA	0.0	20.7	(s)	(s) (s)	0.0	R 32.2 R 27.5 R 29.6 R 38.7	R -44 6	0.0	H 1.446.1
2003 2004	0.0 0.0	R 6.1 R_10.2	23.2 26.5	0.0 0.0	(s) 0.1	NA NA	0.0 0.0	23.2 26.6	(s)	(s) (s)	R 0.2 R 2.0	R 29.6	R -48.1 R -37.4	0.0 (s)	R 1,477.0 R 1,455.5
2005	0.0	Ran	26.5	3.6	0.3	NA	0.0	30.4	(s)	(s)	R 2.9 R 5.8 R 6.3	H 42.3	R -90.1 R -98.2	(s)	H 1 507 4
2006 2007	0.0 0.0	R 2.1 R 10.5	27.1 25.7	3.6 7.0	0.9 1.2	NA NA	0.0 0.0	31.6 34.0	(s) (s)	(s) (s)	H 5.8	R 39.6 R 50.8	H -98.2 R -118.6	0.0 0.0	R 1,553.7 R 1,546.3
2008	0.0	H 13 0	12.8	13.2	1.2	NA NA	(s)	34.0 27.1	(S) (S)	(s)	Han	R 48 2	R -140 6	0.0	R 1.550.8
2009	0.0	R 12.1 R 9.6	18.3	12.0	1.1	NA	(s)	31.5	(s) (s)	(s)	R 9.2 R 13.0 R 19.1	R 52.9 R 66.4	R -150.7 R -90.3	0.0	H 1 /60 Q
2010 2011	0.0 0.0	R 5.1	30.3 30.1	12.6 12.3	0.9 3.1	NA 0.0	(s) (s)	43.8 45.6	(s) (s)	(s) (s)	P 13.0 R 19.1	R 66.4 R 69.9	R -90.3	0.0 0.0	R 1,543.3 R 1,539.1
2012	0.0	R 3.9	31.1	12.8	3.1	0.0	0.0	47.0	(s)	(s)	R 27.8	R 78.8 R 96.3	R -124.4 R -76.9	0.0	R 1 516 6
2013 2014	0.0 0.0	R 7.4 R 4.9	33.8 31.9	12.2 14.1	4.7 4.7	0.0 0.0	0.1 0.1	50.7 50.8	(s) (s)	(s)	H 38.1	н 96.3 R 96.4	H -76.9 R -29.9	0.0 0.0	R 1,543.6 R 1,605.2
2014	0.0	R 9.1	28.0	15.4	3.9	0.0	(s)	47.5	(S) (S)	R (s)	R 27.8 R 38.1 R 40.7 R 47.9	R 104 5	H -79 5	0.0	R 1 538 8
2016	0.0	R 8 8	29.9	15.5	5.7	0.0	0.1	51.2 54.5	(s)	0.1	R 68.5 R 80.5	R 128.6 R 142.2	R -93.6 R -62.0	0.0	R 1 513 2
2017 2018	0.0 0.0	R 6.9 R 6.9	33.6 36.0	15.3 15.5	5.6 4.7	0.0 0.0	0.1 0.1	54.5 56.2	(s) (s)	R 0.2 R 0.3	H 80.5 R 93.3	R 142.2 R 156.8	<sup>H</sup> -62.0 R -128.7	0.0 0.0	R 1,513.4 R 1,581.3
2019	0.0	R 13.3	34.4 R 34.3	15.5	3.5	0.0	0.1	53.4	(s)	Ros	R 99 0	R 166.0	R -117.1	0.0	R 1 530 2
2020	0.0	R 9.7 R 9.4	R 34.3 R 33.9	14.1	4.2	0.0	0.1	R 52.6 R 53.0	(s)	R 0.3 R 0.5	R 100.4 R 111.0	H 163.1	R -113.3 R -81.4	0.0	<sup>H</sup> 1,438.5
2021 2022	0.0 0.0	6.0	33.9	15.2 15.2	3.9 4.0	0.0 0.0	0.1 0.1	53.8	(s) (s)	0.5	1111.0	R 173.9 188.6	···-81.4 -70.6	0.0 0.0	R 1,486.3 1,526.4
							<b></b>		(0)		.20.7		. 5.5		.,020

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Oklahoma

						Petroleum					Bion	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet				Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	77	226	2,592	6,433	2,920	22,708	1,421	11,670	47,744	0					6,838			
1970	6	362	5,533	9,618	4,378	32,521	743	15,675	68,467	ő					16,596			
1980	294	392	12,066	8,987	4,900	39,633	732	16,188	82,506	0					31,109			
1990	557	435	15,444	3,289	7,832	38,998	565	12,271	78,398	0					42,504			
2000	714	363	28,172	5,862	6,812	42,325	237	10,700	94,108	0					49,564			
2005 2006	728 735	340 346	27,998 31,908	10,840 14,870	5,964 5,661	45,150 43,675	221 246	14,620 14,576	104,792 110,934	0					53,707 54,905			
2007	747	372	33,717	3,656	5,295	45,385	130	15,496	103,679	0					55,193			
2008	713	405	35,095	3,077	5,591	44,528	420	12,494	101,204	Ö					56,279			
2009	630	375	29,415	2,717	6,447	43,998	305	12,279	95,161	0					54,545			
2010	650	387	30,223	3,005	6,375	45,766	542	13,024	98,934	0					57,846			
2011	625	392	30,636	2,794	6,365	43,024	586	12,687	96,092	0					59,847			
2012	606	374	30,678	2,281	6,603	45,205	611	13,458	98,836	0					59,341			
2013 2014	634 691	411 435	29,457 32,576	2,760 2,960	6,522 7,498	44,435 47,236	514 483	12,713 11,568	96,401 102,320	0					59,929 61,573			
2014	602	425	30,871	2,755	7,496	46,371	312	12,512	102,320	0					61,336			
2016	591	425	30,318	2,556	7,163	47,021	411	R 12,301	R 99,770	0					61,517			
2017	474	436	34,774	2,862	7,650	45,797	506	R 12,054	R 103,643	0					60,492			
2018	356	490	33,254	3,286	7,816	46,820	367	R 11,729	R 103,272	0					64,575			
2019	241	497	31,056	3,521	7,101	46,131	378	R 12,023	R <sub>100,210</sub>	0					64,796			
2020	157	R 474	27,501	3,350	6,046	42,121	237	R 11,654	R 90,909	0					62,299			
2021 2022	148 201	460 470	R 30,356 30,728	3,354 3,355	7,845 8,017	45,050 44,685	426 436	R 11,700 11,988	R 98,731 99,209	0					64,525 69,487			
2022	201	470	30,720	3,333	0,017	44,000	430	11,300	Trillion						03,407			
1960	1.8	233.6	15.1	24.6	15.7	119.3	8.9	70.7	254.3	0.0	10.2	NA	NA	NA	23.3	523.2	R 47.0	R 570.3
1970	0.1	374.0	32.2	36.5	24.0	170.8	4.7	96.2	364.5	0.0	7.0		NA NA	NA NA	56.6		R 116.0	R 918.2
1980	6.3	393.2	70.3	32.4	26.9	208.2	4.6	99.8	442.2	0.0	11.2		NA NA	NA NA	106.1	959.0	R 225.8	R 1,184.8
1990	12.7	444.6	90.0	12.0	43.8	204.9	3.6	75.9	430.0	0.0	21.4			0.1	145.0		R 320.1	R 1,374.0
2000	14.2	365.8	163.9	21.4	38.6	220.1	1.5	65.7	511.2	0.0	24.1	0.0	(s)	0.1	169.1	1,084.5	R 386.8	R 1,471.3
2005	15.4	350.5	162.9	38.2	33.8	234.4	1.4	90.6	561.2	0.0	26.5		(s)	(s)	183.2		R 370.1	R 1,507.4
2006	15.1	357.3	185.2	51.9	32.1	226.5	1.5	89.7	586.9	0.0	27.1	0.0	(s)	(s)	187.3	1,174.7	R 379.0	R 1,553.7
2007 2008	15.4 14.6	382.6 419.1	195.0 202.8	13.7 11.6	30.0 31.7	233.4 227.4	0.8 2.6	96.1 77.0	569.0 553.2	0.0	25.7 12.8	0.0	(s) (s)	(s)	188.3 192.0		R 364.0 R 358.0	R 1,546.3
2008	14.6	386.9	169.9	10.3	36.6	227.4	1.9	77.0 75.4	518.0	0.0	18.3		(s)	(s) (s)	192.0	1,192.8	R 340.1	R 1,461.5
2010	12.4	398.6	174.5	11.5	36.1	231.9	3.4	79.9	537.5	0.0	30.3		(s)	(s)	197.4	1,176.2	R 367.4	R 1,543.6
2011	11.8	403.3	176.8	10.7	36.1	217.8	3.7	77.6	522.7	0.0	30.1	(s)	(s)	(s)	204.2		H 366.8	R 1.539.0
2012	11.5	385.9	176.9	8.8	37.4	228.8	3.8	82.7	538.5	0.0	31.1	0.0	(s)	(s)	202.5		R 347.0	R 1,516.5
2013	12.2	425.6	169.8	10.6	37.0	224.8	3.2	77.8	523.2	0.0	33.6		(s)	(s)	204.5		R 344.9	R 1,544.0
2014	13.3	451.4	187.7	11.4	42.5	239.0	3.0	70.8	554.4	0.0	31.7	0.1	(s)	(s)	210.1	1,261.0	R 344.7	R 1,605.7
2015	11.5	444.7	177.9	10.6	40.7	234.5	2.0	76.8	542.5	0.0	27.9		(s)	R (s)		1,236.0	R 304.3	R 1,540.3
2016	11.2	445.3	174.5	9.8	40.6	237.7	2.6	R 77.4 R 75.8	542.6 B 565.0	0.0	29.7	0.1	(s)	R (s) R (s)	209.9		R 275.7 R 246.9	R 1,514.6 R 1,514.9
2017 2018	8.8 7.0	454.2 506.0	200.2 191.5	11.0 12.6	43.4 44.3	231.4 236.6	3.2 2.3	R 73.8	R 565.0 R 561.2	0.0	33.4 35.7	0.1 0.1	(s) (s)	0.1	206.4 220.3	R 1,268.0 R 1,330.4	R 252.3	1,514.9 R 1,582.7
2016	4.9	512.9	178.9	13.5	44.3	233.1	2.3	R 75.5	R 543.6	0.0	34.1	0.1	(s)	R 0.1	220.3	R 1,316.8	R 224.6	R 1,541.3
2020	3.7	R 488.4	158.3	12.9	34.3	212.8	1.5	R 73.0	R 492.8	0.0	R 34.0	0.1	(s)	R 0.1	212.6	R 1,231.7	R 208.4	R 1.440.2
2021	3.6	R 473.1	R 175.0	12.9	44.5	227.5	2.7	R 73.3	R 535.8	0.0	R 33.6	0.1	(s)	R 0.2	220.2		R 220.7	R 1,487.2
2022	4.5	486.4	177.1	12.9	45.5	225.6	2.7	75.2	539.1	0.0	34.2	0.1	(s)	0.3	237.1	1,301.3	226.1	1,527.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Oklahoma

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL °	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	30	60	2	3,901	18	3,922				2,372			
1965	10	60 65	2	4.598	78	4,678				4.086			
1970	3	77	3	5,747	52 24	5,802				7,293 9,222			
1975	1	80	12	5,575	24	5,610				9,222			
1980	6	77 76	15 86	1,742 2,008	21 30	1,778 2,124				12,309 14,400			
1985 1990	(s)	66		1,262	10	1,272				17,077			
1995	(5)	69	(s) 11	1,203	4	1,217				16,319			
2000	ó	69 67	2	2,582	59	2,644				19,640			
2005	(s)	59	1	1,874	6	1.881				21 309			
2006 2007	(s) (s)	59 53 60	1	1,971	9	1,981				21,690 21,361			
2007	(s)	60	30	2,466	8	2,504				21,361			
2008	0	66	1	2,131	3	2,135				21,861			
2009 2010	0	62 65	3	1,997	4 5	2,004 2,147				21,641 23,689			
2010	0	61	3 13	2,140 1,850	3	1,866				24,425			
2012	0	49	7	1,479	1	1,488				22,810			
2013	0	66	6	1,946	i	1,953				23,200			
2014 2015	ŏ	69	4	1.942	ż	1.947				23.351			
2015	Ö	69 59	1	1,809	(s)	1,947 1,811				23,351 22,616			
2016	0	51	4	1,670	(s)	1,675				22.790			
2017	0	51 67	2	1,819	1	1,822				21,838			
2018	0	67	2	2,059	(s)	2,061				24,117			
2019	0	68 61	3 47	2,180	(s)	2,184 2,124				23,806 23,232			
2020 2021	0	64	47	2,076 2,095	1	2,124 2,100				23,232			
2022	0	61	4	2,180	1	2,185				25,479			
				2,.00	•	2,.00	Trillion Btu			20,			
1960	0.7	61.9	(s) (s) (s) 0.1	15.0	0.1	15.1	9.2	NA	NA	8.1	95.0	R 16.3	R 111.3
1965 1970	0.2 0.1	66.5 79.9	(S)	17.7 22.1	0.4	18.1 22.4	6.6 6.2	NA NA	NA NA	13.9 24.9	105.4 133.4	R 27.4 P 51.0	n 132.9
1970	(s)	79.9 79.6	(S)	21.4	0.3 0.1	21.6	6.8	NA NA	NA NA	31.5	139.5	R 64.2	R 132.9 R 184.4 R 203.8
1980	0.1	76.8	0.1	6.7	0.1	6.9	2.8	NA	NA NA	42.0	128.6	R 89.3	R 218 0
1985	(s)	77.6	0.5	7.7	0.2	8.4	2.8 5.6	NA	NA NA	49.1	140.7	R 89.3 R 99.8	R 218.0 R 240.6
1990 1995 2000		67.0	(s)	4.8	0.1	4.9 4.7	4.4	(s)	0.1	58.3	134.7	R 128.6 R 120.8 R 153.3	R 263.3 R 257.3 R 301.1
1995	(s) (s)	69.7	(s) 0.1	4.6	(s)	4.7	6.3	(s)	0.1	55.7 67.0	136.6	R 120.8	R 257.3
2000	0.0	67.4	(s) (s) (s) 0.2	9.9	0.3	10.3	3.1	(s)	0.1	67.0	147.8	H 153.3	H 301.1
2005	(s)	61.1	(s)	7.2	(s)	7.2	3.2	(s)	(s)	72.7	144.3	R 146.8 R 149.7 R 140.9	R 201.1 R 288.7 R 288.2 R 293.9 R 266.3 R 312.9 R 309.2 R 272.4
2006 2007	(s)	54.5 61.6	(s)	7.6 9.5	(s)	7.6 9.7	2.8 3.1	(s)	(s)	74.0	139.0 147.3	n 149.7	n 288.7
2007 2008	(s) 0.0	61.6	(0)	9.5	(s)	9.7	3.1	(S)	(s)	72.9 74.6	154.9	R 139.0	R 202.0
2008	0.0	68.5 64.3	(s) (s) (s)	8.2 7.7	(s) (s)	8.2 7.7	3.5 5.5	(8)	(s)	73.8	151.4	R 134.0	R 286 3
2010	0.0	67.4	(s)	8.2	(s)	8.3	5.9	(s)	(s)	80.8	162.5	R 150.5	R 312 9
2011	0.0	63.2	0.1	7.1	(s)	7.2	5.7	(s)	(s)	83.3	159.5	R 149.7	R 309.2
2012	0.0	63.2 50.6		5.7	(s)	7.2 5.7	5.7 4.8	(s)	(s)	83.3 77.8	159.5 139.0	R 133.4	R 272.4
2013	0.0	68.4	(s) (s)	7.5	(s)	7.5	6.2	(s)	(s)	79.2	161.4	R 134.9 R 150.5 R 149.7 R 133.4 R 133.5	R 294.9
2014	0.0	71.7	(s) (s)	7.5	(s)	7.5	6.3	(s)	(s)	79.7	165.2	R 130.7 R 112.2	R 295.9 R 262.5
2015	0.0	62.1	(s)	6.9	(s)	7.0	4.0	(s)	(s)	77.2	150.3	n 112.2	n 262.5
2016 2017	0.0	53.0 53.2	(s)	6.4	(s)	6.4	3.0 2.6	(s)	R (s) R (s)	77.8 74.5	140.3 137.4	R 102.1 R 89.1	R 242.4 R 226.6
2017 2018	0.0 0.0	53.2 69.6	(s) (s) (s) (s)	7.0 7.9	(S) (S)	7.0 7.9	2.6 4.2	(8)	0.1	74.5 82.3	R 164.0	R 04.2	R 258.3
2019	0.0	70.1	(5)	7.9 8.4	(S)	7.9 8.4	_ 4.3	(S) (S)	Ro1	81.2	R 164 1	R 82 5	R 246 6
2020	0.0	62 6	0.3	8.0	(s)	8.2	R 2.5	(s)	R 0.1	79.3	R 152.7	R 94.2 R 82.5 R 77.7 R 81.2	R 230 4
2021	0.0	R 65.6 63.3	(s) (s)	8.0	(s)	8.1	R 2.5 R 2.7	(s)	R 0.1 R 0.2 0.3	81.0	R 152.7 R 157.7	R 81.2	R 246.6 R 230.4 R 238.9 245.2
2022	0.0			8.4	(s)	8.4	3.4	(s)		86.9	162.3	82.9	

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Oklahoma

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total d	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	21	29	72	732	83	177	395	1,459	NA			NA	1,904			
1965 1970	8	29 27 44	68 95	863 1,078	353 233	204 229	233 190	1,721 1,825	NA NA			NA NA	2,945 4,415			
1975	2	42	406	1,046	106	264	196	2,018	NA			NA	6,810			
1980 1985	24 2	47 41	315 732	327 377	15 20	301 338	30 0	988 1,466	NA NA			NA NA	9,005 11,706			
1990	(s) 10	37	626	237	13	374	80	1,329	0			0	13,663			
1995 2000	10	40 43	270 242	226 485	5 32	38 38	(s)	539 797	0			0	13,359 15,989			
2005	1	39 35	252	370	9	139	Ö	770	0			ő	17,477			
2006 2007	3	35 41	252 292 473	373 365	9	123 218	0	796 1,064	0			0	18,197 18,634			
2008	(s) 0	41	614	350	4	194	0	1,161	0			0	19,022			
2009	0	41 42	742 651	304 465	3	174	0	1,222 1,280	0			0	18,670			
2010 2011	0	40	536	404	4	161 149	0	1,093	0			(s)	19,005 19,613			
2012 2013	0	36 44	688 588	323 407	2	161 178	0	1,173 1,174	0			(s)	19,961 19,843			
2013	0	47	641	480	i	163	0	1,285	0			i	20,449			
2015	0	42 37	836	404		955	0	2,195	0			1	20,691			
2016 2017	0	38	949 1,027	449 450	(s) (s)	946 864	0	2,345 2,341	0			1	20,696 20,499			
2018	0	47	556 825	593	(s)	879 883	0	2,028 2,325	0			4	21,229			
2019 2020	0	49 42	789	617 671	(s) (s)	890	0 5	2,325	0			5 6	20,086 18,699			
2021	0	44	685	688	(s)	900	0	2,356 R 2,273	0			. 8	19,999			
2022	0	45	709	636	(s)	1,104	0	2,450 Tri	0 lion Btu			12	22,212			
1960	0.5	00.0	0.4	0.0	0.5	0.9	0.5		NA NA	0.0	NA	NA	6.5	44.1	B 40.4	B 57.0
1965	0.5 0.2	29.8 27.9	0.4	2.8 3.3	0.5 2.0	1.1	2.5 1.5	7.1 8.2	NA NA	0.2 0.1	NA NA	NA NA	10.0	44.1 46.5	R 13.1 R 19.8 R 30.9 R 47.4	R 57.2 R 66.3
1970 1975	0.1	45.3 41.6	0.6 2.4	4.1 4.0	1.3 0.6	1.2 1.4	1.2 1.2	8.4 9.6	NA NA	0.1 0.1	NA NA	NA NA	15.1 23.2	69.0 74.7	R 30.9	R 99.8 R 122.1
1975	(s) 0.6	41.6 47.2	1.8	1.3	0.6	1.4	0.2	9.6 4.9	NA NA	0.1	NA NA	NA NA	30.7	83.5	H 65 4	H 148.9
1985	0.1	41.6	4.3	1.4	0.1	1.8	0.0	7.6	NA	0.1	NA	NA	39.9	89.3	R 81.2 R 102.9	R 170.5 R 195.1
1990 1995	(s) 0.2	38.0 40.2	3.6 1.6	0.9 0.9	0.1 (s)	2.0 0.2	0.5 (s)	7.1 2.7	0.0 0.0	0.5 0.9	0.0 0.0	0.0 0.0	46.6 45.6	92.2 89.6	H 98.9	R 188.4
2000	0.0	43.5	1.4	1.9	(s) 0.2	0.2	(s) 0.0	3.7	0.0	0.5	0.0	0.0	54.6	102.2	R 124.8 R 120.4	H 227.0
2005 2006	(s) 0.1	40.5 36.7	1.5 1.7	1.4 1.4	0.1 (s)	0.7 0.6	0.0 0.0	3.7 3.8	0.0 0.0	0.5 0.5	0.0 0.0	0.0 0.0	59.6 62.1	104.4 103.1	P 120.4 R 125.6	R 224.8 R 228.7
2007	(s) 0.0	42.0	2.7	1.4	(s)	1.1	0.0	5.3	0.0	0.5	0.0	0.0	63.6	111.4	R 125.6 R 122.9	H 234 3
2008 2009	0.0 0.0	42.2 42.8	3.5 4.3	1.3 1.2	(s) (s)	1.0 0.9	0.0 0.0	5.9 6.4	0.0 0.0	0.5 0.8	0.0 0.0	0.0 0.0	64.9 63.7	113.5 113.6	R 121.0 R 116.4	n 234.5 R 230.0
2010	0.0	43.1	3.8	1.8	(s)	0.8	0.0	6.4	0.0	0.8	0.0	0.0	64.8	115.1	R 116.4 R 120.7	R 234.5 R 230.0 R 235.8
2011	0.0	41.6	3.1	1.6	(s)	0.8	0.0	5.4	0.0	0.7	0.0	(s)	66.9	114.7	R 120.2 R 116.7	R 234.9 R 228.8
2012 2013	0.0 0.0	37.3 45.8	4.0 3.4	1.2 1.6	(s) (s)	0.8 0.9	0.0 0.0	6.0 5.9	0.0 0.0	0.6 0.7	0.0 0.0	(s) (s)	68.1 67.7	112.1 120.1	H 114.2	H 234 3
2014	0.0	48.8	3.7	1.8	(s)	0.8	0.0	6.4	0.0	0.8	0.0	(s)	69.8	125.8	H 114 5	R 240 2
2015 2016	0.0 0.0	43.9 38.8	4.8 5.5	1.6 1.7	(s) (s)	4.8 4.8	0.0 0.0	11.2 12.0	0.0 0.0	0.6 0.5	0.0 0.0	(s) (s)	70.6 70.6	126.3 122.0	R 102.7 R 92.7	R 229.0 R 214.7
2017	0.0	39.4	5.9	1.7	(s)	4.4	0.0	12.0	0.0	0.5 0.6	0.0	(s)	69.9	121.9	R 83 7	R 205.5
2018 2019	0.0 0.0	48.5 50.4	3.2 4.8	2.3 2.4	(s) (s)	4.4 4.5	0.0 0.0	9.9 11.6	0.0 0.0	0.6 0.6	0.0 0.0	(s)	72.4 68.5	131.5 131.1	R 82.9 R 69.6	R 214.5
2020	0.0	43.7	4.5	2.6 2.6	(s)	4.5	(s) 0.0	11.7	0.0	0.6	0.0	R (s)	63.8	R 119.7	R 62.6	R 182.3 R 193.5
2021 2022	0.0 0.0	45.0 46.9	3.9 4.1	2.6 2.4	(s) (s)	4.5 5.6	0.0	11.1 12.1	0.0 0.0	0.6 1.7	0.0 0.0	R (s) (s)	68.2 75.8	125.1 136.5	R 68.4 72.3	R 193.5 208.8
2022	0.0	40.3	4.1	۷.4	(5)	5.0	0.0	12.1	0.0	1.7	0.0	(3)	73.0	100.0	12.5	200.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Oklahoma

		I			Felio	eum				Bioi	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	l barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion «Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	25 11	128 236	1,193 1,203	1,511 1,704	1,383 812	1,017	10,522	15,626	0				NA	2,561			
1965	11	236	1,203	1,704	812	346	12,857	16,921	Ō				NA	3,563			
1970	0	218	2,084	2,277	515	477	14,487	19,840	0				NA	4,888			
1975 1980	20 264	223 246	4,166 3,705	2,248 6,683	437 359	374 702	15,792 15,047	23,018 26,495	0				NA NA				
1985	852	245	7,215	5,517	977	211	9,347	23,267	0				NA NA	10,576			
1990	557	307	3,592	1,693	834	484	11,306	17,910	Ö				0	11,764			
1995	1,455	275	2,873	2,138	1,183	329	10,504	17,027	0				0				
2000	714	231	3,341 3,449	2,751	671	237	9,689	16,689	0				0				
2005 2006	727 732	210 226	3,449	8,532 12,462	1,590 1,683	221 246	13,857 13,630	27,649 31,818	0				0				
2006	747	242	4,112	777	1,269	130	14,740	21,028	0				0				
2008	713	270	4,150	517	1,098	420	11,803	17,988	ŏ				ŏ	15,395			
2009	630	242	2,111	346	1,108	305	11,451	15,322	0				0	14,233			
2010	650	249	2,607	380	833	542	12,354	16,715	0				0				
2011	625	259	2,548	518	848	586	12,054	16,555	0				0				
2012 2013	606 634	256 259	4,487 4,536	453 370	834 922	611 514	12,874 12,167	19,259 18,509	0				0				
2013	691	271	5.746	495	719	483	11,070	18,513	0				0				
2015	602	276	3,793	486	889	312	11 081	17 460	ŏ				ŏ				
2016	591	287	4,048	367	957	411	R 11,800 R 11,572	R 17 500	0				0	18,031			
2017	474	295	6,603	330	963	506	R 11,572	R 19,975	0				0				
2018 2019	356 241	318 322	6,027 4,538	469 609	978	367	R 11,268 R 11,583	R 19,109 R 18,025	0				(s)	19,229 20,904			
2019	157	R 325	2,409	478	917 915	378 232	R 11,383	R 15,291	0				- 1	20,904			
2021	148	R 309	4,963	490	907	426	R 10,863	R 17,648	0			==	i	20,780			
2022	201	319	5,016	442	947	436	11,114	17,956	Ō				1	21,796			
									Trillion Bt	u							
1960	0.6	132.5	7.0	5.7	7.3	6.4	64.4	90.7	0.0		NA	NA	NA		233.4	R 17.6	R 251.0 R 378.6
1965	0.3	242.2	7.0	6.5	4.3	2.2	79.3	99.2	0.0	0.9	NA	NA	NA	12.2	354.6	R 23.9	H 378.6
1970	0.0	225.3	12.1	8.3	2.7	3.0 2.4	89.6	115.7	0.0	0.7	NA NA	NA	NA NA		358.4	R 34.2	R 392.5 R 437.4
1975 1980	0.5 5.6	221.7 246.4	24.3 21.6	7.9 23.6	2.3 1.9	2.4 4.4	98.3 93.2	135.2 144.7	0.0 0.0	5.1 8.3	NA NA	NA NA	NA NA		387.0 438.4	R 50.4 R 71.1	R 509.5
1985	18.3	249.3	42.0	18.9	5.1	1.3	59.6	126.9	0.0		0.0	NA NA	NA NA		440.3	H 73 3	R 513 7
1990	12.7	313.1	20.9	5.8	4.4	3.0	70.2	104.4	0.0	16.5	0.0	0.0	0.0		486.8	Raaa	R 575 /
1995	33.0	278.9	16.7	7.4	6.2	2.1	65.3	97.6	0.0	17.3	0.0	0.0	0.0		466.8	R 86.7	H EE2 E
2000 2005	14.2	233.1 216.2	19.4 20.1	9.4	3.5	1.5	59.7 86.0	93.5 145.0	0.0	20.5 22.8	0.0	0.0	0.0	47.5	408.8 450.4	R 108.8 R 102.8 R 103.7 R 100.2 R 97.9	R 517.6 R 553.2 R 586.6
2005 2006	15.4 15.0	216.2	20.1 22.0	29.3 42.6	8.3 8.7	1.4 1.5	86.0 84.3	145.0	0.0 0.0	22.8	0.0	0.0 0.0	0.0 0.0		450.4 482.9	H 102.8	R 596 6
2006	15.4	249.4	23.8	2.6	6.5	0.8	91.5	125.3	0.0	22.1	0.0	0.0	0.0		464.1	R 103.7	R 564.3
2008	14.6	279.6	24.0	1.7	5.6	2.6	72.9	106.9	0.0	8.8	(s)	0.0	0.0		462.4	R 97.9	R 564.3 R 560.4
2009	12.1	249.7	12.2	1.1	5.6	1.9	70.7	91.6	0.0	12.1	(s)	0.0	0.0	48.6	414.0	n 88 7	n 502 7
2010	12.4	256.3	15.1 14.7	1.5	4.2	3.4 3.7	76.1	100.2	0.0	23.6 23.6	(s)	0.0	0.0		444.2	R 96.2	R 540.4
2011	11.8	266.4	14.7	2.0	4.3	3.7	74.0	98.7	0.0	23.6	(s)	0.0	0.0	53.9	454.5	R 96.9	R 551.3 R 569.4
2012 2013	11.5 12.2	263.8 267.7	25.9	1.7	4.2 4.7	3.8	79.3 74.6	115.0	0.0	25.6 26.6	0.0	0.0	0.0		472.5 474.2	R 96.9 R 97.2	R 571.4
2013 2014	12.2	267.7 281.6	26.1 33.1	1.4 1.9	3.6	3.2 3.0	74.6 67.8	110.1 109.5	0.0 0.0	26.6	0.1 0.1	0.0 0.0	0.0		474.2 489.8	Raas	R 580 3
2015	11.5	289.0	21.9	1.9	4.5	2.0	73.7	103.8	0.0	23.3	(s)	0.0	0.0		489.3	R 89.5	R 578.8
2016	11.2	300.8	23.3	1.4	4.8	2.0 2.6 3.2	R 74 4	106.5	0.0	26.2	0.1	0.0	0.0		506.2	HONO	H 587 0
2017	8.8	308.1	38.0	1.3	4.9	3.2	R 72.9	R 120.3	0.0	30.3	0.1	0.0	0.0		R 529.5	R 74.1	R 603.6
2018	7.0	328.0	34.7	1.8	4.9	2.3	R 71.1	R 114.8	0.0		0.1	0.0	(s)	65.6	R 546.4	<sup>rt</sup> 75.1	R 621.5
2019	4.9	331.8 R 335.2	26.1	2.3	4.6	2.4	R 72.9 R 70.7	R 108.4 R 92.5	0.0		0.1	0.0	(s)	71.3	R 545.6 R 532.0	R 72.4	R 618.1 R 600.1
2020 2021	3.7 3.6	R 317.3	13.9 28.6	1.8 1.9	4.6 4.6	1.5 2.7	R 68.6	R 106.3	0.0 0.0	31.0 30.2	0.1 0.1	0.0 0.0	(S) (S)	) 69.5 ) 70.9	R 528.4	R 68.1 R 71.1	R 599.5
2022	4.5	330.3	28.9	1.7	4.8	2.7	70.3	108.4	0.0	29.0	0.1	0.0	(s)		546.5	70.9	617.4

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Oklahoma

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	(s)	9	562	1.325	290	2,920	485	21,148	8	26,737	0			
1965	(s) (s) 0	9 13 23 24 23 25 26 31	562 745 448	1,325 1,582 3,351	489	3,453	527 457	24,799	244 75	31,839	0			
1970 1975	0	23	448	3,351	516 474	4,378 3,916	457	31,776	75 42	41,000	0			
1975	(s) 0	23	309 328	4,809 8,030	235	4,900	537 777	37,768 38,974	0	47,854 53,244	0			
1985	Ö	25	217	10,611	133	5,870	707	40.855	Ō	58.394	0			
1990	0	26	146	11,227	97	7,832	796	37,790	0	57,888	0			
1995 2000	0	31	154	13,501 24,586	59	5,359 6,812	759 811	41,161	0	60,994	0			
2000 2005	0	22 32 32 29 28 29	108 64	24,586 24,296	44 63	5,964	684	41,617 43,421	0	73,978 74,492	0			
2006	ŏ	32	261	27,818	64	5,661	667	41,869	ŏ	76,339	ŏ			
2007	0	29	51	29.102	49	5,295	688	43.898	Ō	79.083	0			
2008	0	28	45 245	30,330 26,560	79 70	5,591	639 575	43,236	0	79,919	0			
2009 2010	0	29 31	245 199	26,560 26,963	70 20	6,447 6,375	575 464	42,717 44,772	0	76,613 78,792	0			
2010	0	31	186	27,539	20	6,365	404	42,027	0	76,792 76,578	0			
2012	ŏ	31 33	174	25.497	22 26	6,603	440 407	44.210	ŏ	76.916	ŏ			
2013	0	42 47	131 53	24,327 26,185	36 43	6.522	413 442	43,336 46,354	0	74,765 80,575	0			
2014	0	47	53	26,185	43	7,498		46,354	0	80,575	0			
2015 2016	0	47	58	26,241 25,316	56 71	7,185	471 R 443	44,528 45,117	0	78,540 B 70,160	0			
2016 2017	0	50 51	58 60	25,316 27,142	262	7,163 7,650	Ragn	45,117 43,970	0	R 78,168 R 79,504	0			
2018	0	58	66	26,669	165	7,816	R 395	44,963	0	H 80.074	0			
2019	Ö	58 59	69	25,690	115	7,101	R 370	44,331	Ō	H 77.676	Ö			
2020	0	46	69 62 63	24,256	125	6,046	R 395 R 370 R 335 R 353	40,315	0	H 71 138	0			
2021 2022	0	44 44	63 65	R 24,704 24,998	81 96	7,845 8,017	7 353 375	43,243 42,634	0	R 76,709 76,619	0			
	•			_ ,,,,,		2,011		Ilion Btu	•	,	•			
1960	(s)	9.3	2.8	7.7	1.1	15.7	2.9	111.1	0.1	141.4	0.0	150.7	0.0	150.7
1965	(s) (s) 0.0	12.9	3.8 2.3	9.2	1.9	18.7	3.2	130.3	1.5 0.5	168.6	0.0	181.5	0.0	181.5 241.5
1970	0.0	12.9 23.5 23.6		19.5	2.0	24.0	2.9 3.2 2.8 3.3	166.9	0.5	217.9	0.0	241.5	0.0	241.5
1975 1980	(s) 0.0	23.6	1.6	28.0 46.8	1.8 0.9	21.5	3.3	198.4 204.7	0.3 0.0	254.8	0.0	278.5	0.0 0.0	278.5
1985	0.0	22.8 25.8	1.7 1.1	61.8	0.9	26.9 32.5	4.7 4.3	214.6	0.0	285.7 314.8	0.0 0.0	308.5 340.8	0.0	308.5 340.8
1990	0.0	26.6	0.7	65.4	0.4	43.8	4.8	198.5	0.0	313.6	0.0	340.2	0.0	340.2
1995	0.0	31.3	0.8	78.6	0.2	30.3	4.6	214.2	0.0	328.7	0.0	360.0	0.0	360.0
2000	0.0	21.9	0.5	143.1	0.2	38.6	4.9	216.4	0.0	403.8	0.0	425.6	0.0	425.6
2005 2006	0.0 0.0	32.6 32.6	0.3 1.3	141.4 161.4	0.2 0.2	33.8	4.1 4.0	225.4 217.1	0.0 0.0	405.3 416.2	0.0 0.0	438.3 449.7	0.0 0.0	438.3 449.7
2007	0.0	29.5	0.3	168.3	0.2	32.1 30.0	4.0	225.7	0.0	428.7	0.0	459.4	0.0	459.4
2008	0.0	28.8	0.2	175.3	0.3	31.7	4.2 3.9	220.8	0.0	432.2	0.0	462.0	0.0	462.0
2009 2010	0.0	30.1 31.8	1.2 1.0	153.4 155.7	0.3	36.6 36.1	3.5 2.8	217.4	0.0	412.4 422.6	0.0	442.5 454.4	0.0	442.5 454.4
2010	0.0	31.8	1.0	155.7	0.1	36.1	2.8	226.9	0.0	422.6	0.0	454.4	0.0	454.4
2011 2012	0.0 0.0	32.1 34.2	0.9	158.9 147.0	0.1 0.1	36.1 37.4	2.7 2.5 2.5	212.8	0.0 0.0	411.5 411.7	0.0 0.0	443.6 445.9	0.0 0.0	443.6 445.9
2012	0.0	34.2 43.6	0.9 0.7	140.2	0.1	37.0	2.5	223.8 219.3	0.0	399.8	0.0	443.4	0.0	445.9 443.4
2014	0.0	49.2	0.3	150.9	0.2	42.5 40.7	2.7 2.9 2.7 2.5	234.5	0.0	431.0	0.0	480.3	0.0	480.3
2015	0.0	49.6	0.3	151.2	0.2	40.7	2.9	225.2	0.0	420.5	0.0	470.1	0.0	470.1
2016	0.0	52.7	0.3	145.7	0.3	40.6	2.7	228.1	0.0	417.7	0.0	470.3 R 479.2	0.0	470.3 R 479.2
2017 2018	0.0 0.0	53.5 60.0	0.3 0.3	156.3 153.6	1.0 0.6	43.4 44.3	2.5 2.4	222.2 227.2	0.0 0.0	425.7 428.5	0.0 0.0	488.5	0.0 0.0	11479.2 488.5
2019	0.0	60.0	0.3	148.0	0.6	40.3	2.4	224.0	0.0	415.2	0.0	475.9	0.0	/75 Q
2020	0.0	60.7 R 46.9	0.3	139.6	0.5	34.3	2.0	203.7	0.0	380.4	0.0	H 427.3	0.0	H 427.3
2021	0.0 0.0	45.1 45.8	0.3 0.3	R 142.4	0.3	44.5	2.1 2.3	218.4	0.0 0.0	380.4 R 410.3	0.0	R 455.4 456.0	0.0	R 455.4 456.0
2022	0.0	45.8	0.3	144.1	0.4	45.5	2.3	215.3	0.0	410.1	0.0	456.0	0.0	456.0

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Oklahoma

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>C</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	(s)	83	26	0	33	59	0	705		0	NA	NA	0	
1960 1965	`1	83 127	26 22 51 55 59	Ö	33 28	59 50	Ö	825		Ö	NA	NA	Ō	
1970	1	235 301 330	51	0	64	116 85 59	0	1,406		0	NA	NA	0	
1975 1980	(s) 5,752	301	55	Ō	29	85	Ō	2,945 1,315		Ō	NA	NA NA	Q	
1980	5,752	330	59	0	(s) 9	59	0	1,315		0	NA	NA	0	
1985 1990	12,747	201	79 28 17	0		87	0	3,980 2,731 2,780		0	0	0	0	
1990 1995	14,957 19,276	176 161	28	0	58 112	86 129	0	2,/31		0	0	0	0	
1995	19,270	101	77	0	0	129	0	2,700		0	0	0	0	
2000 2005	20,708 21,952	176 242	23	0	3	77 25	0	2,277 2,630		Ů	0	848	(s)	
2006	21,188	279	46	ñ		46	0	624		ů	0	1 712	(3)	
2007	20.547	287	59	0	(s) 190	249	ő	3.066		Ö	ő	1.849	0	
2007 2008	20,547 21,957	283	77 23 46 59 23 23 24 30 21	ŏ	0	249 23	ŏ	3,066 3,811		ő	ŏ	1,712 1,849 2,358	ŏ	
2009 2010	20,959 19,363	285 289	23	Ö	Ö	23 24	Ö	3,553 2,809		0	Ö	2,698 3,808	Ó	
2010	19,363	289	24	0	0	24	0	2,809		0	0	3,808	0	
2011	21,307	264 318	30	0	0	30	0	1,507		0	0	5,605 8,158	0	
2012	18,317	318	21	0	0	21	0	1,146		0	0	8,158	0	
2013 2014	18,794 18,743	248 208	18 22 17	0	0	18 22 17	0	2,178 1,428		0	0	11,162 11,937	0	
2014	18,743	208	22	0	0	22	0	1,428		0	0	11,937	0	
2015	15,647	254	1/	0	0	1/	0	2,664		0	2	14,031 20,069 23,599	0	
2016 2017	12,170 10,940	277 229	31 27	0	Ü	31 27	0	2,573 2,036		0	33	20,069	0	
2017	0.541	229	21	0	0	31	0	2,030		0	62	23,399	0	
2019	9,541 5,206	326 349	31 33	n n	0	33	0	2,035 3,903		0	62 60	27,338 29,008	0	
2020	3,970	346	51	ő	0	51	0	2,854		ŏ	63	29,417	0	
2021	7,435	265 287	66	Ŏ	Ŏ	66	Ŏ	2,766		Ŏ	77	32.540	Õ	
2022	7,435 5,854	287	66 53	0	Ō	66 53	0	2,766 1,770		Ō	63 77 81	32,540 37,553	0	
							Trillion Btu							
1960	(s) (s)	85.7	0.2	0.0	0.2	0.4	0.0	R 2.4	0.0	0.0	NA	NA	0.0	R 88.5
1965	(s)	130.5 242.2 312.3	0.1	0.0	0.2	0.3	0.0	R 2.8 R 4.8	0.0	0.0	NA	NA	0.0	R 133.7 R 247.8 R 322.9
1970	(s)	242.2	0.3	0.0	0.4	0.7	0.0	n 4.8	0.0	0.0	NA	NA	0.0	P 247.8
1975	(s) 100.0 218.8	312.3	0.3	0.0	0.2	0.5	0.0	R 10.0 R 4.5 R 13.6 R 9.3 R 9.5 R 7.8	0.0	0.0	NA	NA	0.0	H 322.9
1980 1985	100.0	345.8 209.5	0.3 0.5 0.2	0.0 0.0	(s) 0.1	0.3 0.5	0.0 0.0	H 12.5	0.0 0.0	0.0 0.0	NA 0.0	NA 0.0	0.0 0.0	R 440.7
1990	210.0	193.6	0.0	0.0	0.4	0.5	0.0	R a 3	0.0	0.0	0.0	0.0	0.0	R 442.4
1995	266.1 336.6 366.9	183.6 166.3 180.9	0.2	0.0	0.7	0.5	0.0	R 9.5	0.0	0.0	0.0	0.0	0.0	R 513 2
2000	366.9	180.9	0.1 0.5	0.0	0.0	0.8 0.5	0.0	R 7.8	0.0	0.0	0.0	0.0	0.0 0.0	R 556.0
2005 2006 2007	382.0 369.3	249.5	0.1 0.3 0.3	0.0		0.1	0.0	R 9.0	0.0	0.0	0.0	R 2.9	(s)	R 643.5
2006	369.3	287.0	0.3	0.0	(s) (s)	0.3	0.0	R 2.1	0.0	0.0	0.0	R 5.8	(s) 0.0	R 664.6
2007	357.8	294.9	0.3	0.0	1.2	1.5	0.0	R 10.5	0.0	0.0	0.0	R 6.3	0.0	R 671.0
2008	377 1	249.5 287.0 294.9 292.2	0.1	0.0	0.0	0.1	0.0	R 9.0 R 2.1 R 10.5 R 13.0	(s) 0.0	0.0	0.0	H 8.0	0.0	R 450.7 R 442.4 R 459.6 R 513.2 R 556.0 R 643.5 R 664.6 R 671.0 R 690.5 R 676.9
2009 2010	361.2 333.6	294.2 298.7	0.1 0.1	0.0 0.0	0.0	0.1	0.0	H 12.1	0.0	0.0	0.0	H 9.2	0.0	H 676.9
2010	333.6	298.7	0.1	0.0	0.0	0.1	0.0	R 12.1 R 9.6 R 5.1	0.0	0.0	0.0	R 2.9 R 5.8 R 6.3 R 8.0 R 9.2 R 13.0 R 13.1 R 27.8 R 38.1 R 44.7 R 47.9 R 68.5 R 93.3 R 99.0	0.0	H 655.1
2011	366.5	273.6 326.5 256.7	0.2	0.0	0.0	0.2	0.0	<sup>n</sup> 5.1	0.0	0.0	0.0	n 19.1	0.0	□ 664.6
2012	315.6 323.7	326.5	0.1 0.1	0.0 0.0	0.0	0.1	0.0 0.0	11 3.9 B 7.4	0.0 0.2	0.0	0.0 0.0	1127.8 R 20 4	0.0 0.0	R 664.6 R 673.9 R 626.3
2013	323.7	256.7	0.1	0.0	0.0 0.0	0.1 0.1	0.0	R 3.9 R 7.4 R 4.9	0.2	0.0 0.0	0.0	B 40.7	0.0	B 504.7
2014 2015	322.8 269.2	216.0 266.7 290.9	0.1 0.1	0.0	0.0	0.1	0.0 0.0	R a 1	0.2 0.2	0.0	0.0 (e)	R 47 a	0.0	R 502.1
2016	210.6	200.7 290.0	0.1	0.0	0.0	0.1	0.0	R 9.1 R 8.8	0.2	0.0	R (s)	R 68 5	0.0	R 570 1
2017	189.5	237.9	0.2	0.0	0.0	0.2	0.0	R 6.9	0.2	0.0	(s) R (s) R 0.1 R 0.2	R 80 5	0.0	R 515.3
2017 2018	189.5 164.3	237.9 336.2	0.2 0.2	0.0 0.0	0.0 0.0	0.2	0.0 0.0	R 6.9 R 6.9	0.2 0.3	0.0	R 0.2	R 93.3	0.0 0.0	R 601.3
2019	89.0	360.8	0.2	0.0	0.0	0.2	0.0	R 13.3 R 9.7	0.3	0.0	R 0.2 R 0.2	R 99.0	0.0	R 562.7
2020	67.0	356.5 272.8	0.3	0.0	0.0	0.3	0.0	R 9.7	0.2	0.0	R 0.2	R 100.4	0.0	R 534.3
2021	128.1 102.3	272.8	0.3 0.4	0.0	0.0	0.3 0.4	0.0	R 9.4	0.3	0.0	R 0.3	R 100.4 R 111.0	0.0	R 584.7 R 593.1 R 579.1 R 579.1 R 515.3 R 601.3 R 562.7 R 534.3 R 522.3
2022		296.5	0.3	0.0	0.0	0.3	0.0	6.0	0.4	0.0	0.3	128.1	0.0	

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Oregon

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				Mi	illion kilowatthou	rs	Thousan	nd barrels
1960	381	31	10,966	1,164	384	16,361	5,562	3,430	37,866	0	12,466	0	NA	NA
1965	305	31 56	13,085	961	812	19,838	5,115	4,425	44,235	Ö	16,508	0	NA	NA
1970 1971	140 157	95 101	12,904 14,178	1,251 1,350	2,086 2,072	24,958 26,147	6,632 6,577	4,833 5,281	52,665 55,606	0	29,912 34,364	0	NA NA	NA NA
1972	104	110	15,695	1.214	2.085	27,756	7.880	5,900	60 530	0	36,478	Ö	NA	NA
1973 1974	101 156	108 98	16,256 13,937	1,089 1,113	2,386 2,212	28,953 28,253	7,372 6,542	5,299 4,950	61,356 57,006	0	28,150 36,004	0	NA NA	NA NA
1975	130 306	110 93 73 86	13,267 14,220	726 710	2,079	28.904	4,321 3,463	5,688	54,984 56,270	2	34,562 35,384	ő	NA	NA
1976 1977	306 277	93 73	14,220 16,804	710 749	2,055	30,747 32,054	3,463 3,362	5,075 5,612	56,270 60,887	2,103 6,492	35,384 24,385	0	NA NA	NA NA
1978	251	86	17.193	835	2,307 2,534	33,497	4,595	6,038	60,887 64,691	1,563	24,385 31,911	Ō	NA	NA
1979 1980	255 715	94 79	18,285 16,764	1,466 1,354	2,631 2,465	31,845 30,511	5,445 4,511	5,643 4,649	65,315 60,254	4,495 5,395	29,866 30,222	0	NA NA	NA NA
1981	1.514	76	16.423	1.259	1.694	29.713	6.344	4,478	59.911	6,424	32.160	0	0	NA
1982	700	71	14,974	1,322	1,785	28,386	10,531	3,866	60,865	4,792	45,223	0	5	NA
1983 1984	578 685	67 79	16,035 15,328	1,321 1,301	1,777 1,962	28,309 29,354	4,244 5,766	3,907 4,120	55,594 57,831 57,248	3,685 4,736	45,077 46,635	(s) 0	3 1	NA NA
1984 1985	591	83 71	15,027	1.527	1,962 2,142	29,047	4.961	4,544	57,248	6,911	46,635 40,780	Ö	(s)	NA
1986 1987	163 205	71 80	14,699 15,015	1,517 1,490	2,618 2,928	29,947 30,649	5,491 5,089	4,326 4,884	58,598 60,055	7,081 4,348	40,771 35,459	0	0	NA NA
1988 1989	177	87	15,935 16,006	1,581 1,612	3 189	32,092 31,889	6,155 5,339	5,088 5,342	64.040	6.339	34,674 38,007	Ö	Ő	NA
1989 1990	396 934	108 109	16,006 15,902	1,612	3,377 3,319	31,889 31,728	5,339 4,430	5,342 5,582	63,566	5,299 6.074	38,007	0	0	NA NA
1990	1,940	124	16,033	1,384 1,559	3,744	32,125	6,296	4,968	62,345 64,723	1,465	41,240 41,088	i	0	NA NA
1992	2.124	123 137	16.159	1.430	4.011	31,921 33,528	6.497	6.230	66 248	4,573	31.719	1	508	NA
1993 1994	2,100 2,479	137 147	16,838 16,816	1,561 1,423	4,310 4,649	33,528 33,837	4,595 4,385	4,931 5,225	65,763 66,335 65,263	-21 0	35,864 31,220	0	874 0	NA NA
1995	1,125	146	16,530	1,535 1,627	5,114	34,021	3,589	4,474	65,263	0	40,764	Ō	Ő	NA
1996 1997	1,134 918	181 185	16,074 16,641	1,627 898	5,235 5,723	35,161 33,594	3,249 3,449	4,556 4,564	65,901 64,869	0	44,906 46,704	0	0	NA NA
1998	2.074	229	16,005	773	5.866	36.360	3,871	6,893	69,767	0	39.902	20	353	NA
1999 2000	2,154 2,241	235 225	17,426 18,519	1,179 1,320	6,437 6,277	36,512 35,989	2,581 1,468	7,361	71,494 69,156	0	45,639 38,116	85 67	299	NA
2000	2,241	230	17,413	1 009	5,277 5.217	35,989 36.157	1,468	5,583 3,614	64 771	0	28,645	89	335 438	NA 4
2001 2002	2,490 2,205	202	17,413 17,762	1,307	5,217 5,175	36,157 36,898	1,360 1,758	4,492	67.392	Ö	34,413	376	834	7
2003 2004	2,598 2,141	213 235	16,012 17,792	1,335 1,022	5,589 5,097	36,527 36,818	1,942 2,069	4,403 4,707	65,808 67,505	0	28,645 34,413 33,250 33,081	444 619	635 669	6 12
2005	2.112	233	17.853	1.278	5.402	37.488	2.186	4.787	68,994 70,331	Ö	30,948 37,850	734	1.141	39 112
2006 2007	1,558 2,672	233 223 252	18,586 18,847	1,092 1,066	5,764 5,630	37,956 37,810	2,069 2,539	4,863 3,914	70,331 69,807	0	37,850 33,587	931 1,247	1,282 1,622	112 152
2008	2,451	268	18,688	1,774	5,464 6,525	36,410	1,746	3,689	67,770	0	33,805	2,575	2,862 3,305	131
2009	1,933	249	18,474	1,794	6,525	36,902	968	2,650	67,313	0	33,034	3,470	3,305	139
2010 2011	2,494 2,062	239 199	19,095 19,068	1,594 1,691	4,466 4,435	36,523 35,307	1,696 1,115	2,451 2,445	65,824 64,061	0	30,542 42,315	3,920 4,775	2,940 2,956	112 381
2012	1,658	216	18.769	1 508	4.495	34,508	929 730	2,377	62,587 62,811	Ō	39,410	6.343	2.787	452 529
2013 2014	2,268 1,963	240 220	18,251 19 183	1,586 1,712	4,794 4,727	35,040 35,472	730 174	2,410 2.429	63 607	0	33,098 35,262	7,456 7,555	2,850 3 105	529 660
2015	1,963 1,501	235 236	19,183 17,654 17,366	1,586 1,661	4,895 5,079	36,831 37,952	315	2,487 R 2,764	63,768 R 64,943 R 66,535 R 67,360	Ö	35,262 31,254 34,549	7,555 6,632 7,157	3,105 3,822	669 741
2016 2017	1,125 1,072	236 247	17,366 17,568	1,661 2,098	5,079 5,425	37,952 38,635	120	H 2,764 R 2,770	H 64,943 R 66 525	0	34,549	7,157 6,227	3.897	1,117
2018	958	256	17,961	2.201	5,435 6,038	38,758	21 14	R 2,779 R 2,386	R 67,360	0	38,294 35,443	7,447	4,021 4,000	1,214 1,243
2019	1,551 1,020	287 268	17,257 17,784	2,329 2,076	6,103 3,834	37,949 32,895	343 576	R 2,363 R 2,287	n 66 345	0	30 322	6,569 8,777	3,988 3,489	1,421 1,648
2020 2021	1,020 57	268 290	17,784 R 18,261	2,076 2,336	3,834 4,505	32,895 35,580	5/6 129	R 2,287	R 59,451 R 64,476	0	31,921 27,660	8,777 9,376	3,489 3,799	1.825
2022	57 48	279	18,000	2,616	4,939	34,768	129 132	4,790	65,246	Ö	31,304	8,149	3,721	1,961

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Oregon (trillion Btu)

					Fossi	fuels						Fossil fuels	
						Petroleum						(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	8.9	31.9	63.9	4.4	2.1	85.9 104.2 131.1 137.4 145.8 152.1 148.4	35.0	21.1	212.4	253.3	31.9	63.9	85.9
1960 1965	7.1	60.0	63.9 76.2	4.4 3.7 4.8 5.1 4.6 4.1 4.2 2.7 2.6 2.8	4.5	104.2	35.0 32.2	27.5	212.4 248.3 294.5 311.3	315.4	31.9 60.0	63.9 76.2	85.9 104.2
1970 1971	3.0 3.4	99.6 105.4	75.2 82.6	4.8	11.8	131.1	41.7	30.0 33.2	294.5	397.1 420.1	99.6 105.4	75.2 82.6	131.1 137.4
1971	3.4 2.2	105.4 115.3	82.6	5.1	11.7 11.8	137.4	41.4 49.5	33.2 37.1	311.3	420.1 457.9	105.4	82.6 01.4	137.4
1972 1973 1974	2.2	110.3	91.4 94.7 81.2	4.0 4.1	13.5	145.0	49.5 46.3	37.1	340.3 344.1 318.4	460.6	115.3 114.3 102.4	91.4 94.7 81.2	145.8 152.1 148.4
1974	2.1 3.3	114.3 102.4	81.2	4.2	13.5 12.5	148.4	46.3 41.1	33.4 31.0	318.4	424.0	102.4	81.2	148.4
1975 1976	2.7 5.9 5.2	114.2 95.8	77.3 82.8	2.7	11.7	151.8 161.5	27.2 21.8	35.9 32.0 35.1	306.6	423.5 414.0	114.2 95.8	77.3 82.8 97.9	151.8 161.5
1976	5.9	95.8	82.8	2.6	11.6	161.5	21.8	32.0	312.3	414.0	95.8	82.8	161.5
1977	5.2	75.6	97.9 100.1 106.5 97.7 95.7 87.2 93.4	2.8	13.0	168.4 176.0 167.3 160.3 156.1 149.1 148.7 154.2 152.6 157.3 161.0 168.6 167.5 166.7 168.8 167.7	21.1	35.1	306.6 312.3 338.3 360.1 363.9 334.3 333.7 341.6 308.4	419.1	75.6 90.0 97.9 82.3 78.9	97.9 100.1	168.4 176.0 167.3 160.3 156.1 149.1 148.7 154.2 152.6 157.3 161.0
1978 1979	4.7 4.7	90.0 97.9	100.1	5.1	14.3 14.9	1/6.0	28.9 34.2	37.7 35.6 29.1 27.8	360. I 363. 9	454.8 466.5	90.0	100.1	176.U 167.3
1980	12.1	82.3	97.7	5.0	13.9	160.3	28.4	29.1	334.3	428.8	82.3	97.7	160.3
1980 1981	12.1 25.8	82.3 78.9	95.7	4.7	9.6	156.1	28.4 39.9	27.8	333.7	428.8 438.4	78.9	97.7 95.7 87.2 93.4	156.1
1982 1983	11.8 9.9	73.9 69.8	87.2	4.9	10.1 10.0	149.1	66.2 26.7	24.1 24.7	341.6	427.3	73.9 69.8	87.2	149.1
1983 1984	9.9	69.8	93.4	4.9	10.0	148.7	26.7	24.7	308.4	388.1	69.8	93.4	148.7
1984	11.8 10.0	81.5 85.5	89.3 87.5	4.8 5.6	11.1 12.1	154.2 152.6	36.3 31.2	20.1	321.7 317.8	415.0 413.4	81.5	89.3 87.5	154.2 152.6
1985 1986 1987 1988	2.9	85.5 72.5	89.3 87.5 85.6 87.5 92.8	5.5	14.8	157.3	31.2 34.5	26.1 28.9 27.1 30.5 31.9	321.7 317.8 324.8 332.9 355.8 353.0 346.2 359.8 369.8 360.4	413.4 400.3	81.5 85.5 72.5 82.5 89.2	89.3 87.5 85.6 87.5 92.2 92.6 93.4 94.1	157.3
1987	2.9 3.7 3.1	82.5	87.5	5.5	16.5	161.0	32.0	30.5	332.9	419.1	82.5	87.5	161.0
1988	3.1	89.2	92.8	5.7	18.0	168.6	38.7	31.9	355.8	448.0	89.2	92.8	168.6
1989	6.7	111.8 111.7	93.2	5.9	19.1 18.8	167.5	33.6 27.9	33.7	353.0	471.5	111.8	93.2	167.5
1990 1991	15.7 32.8	127.8	93.2 92.6 93.4 94.1	5.0	21.1	168.8	39.6	33.7 35.3 31.3 39.3 31.5	340.2 350.8	471.5 473.6 520.4	111.8 111.7 127.8	92.0 93.1	167.5 166.7 168.8
1992	40.8	127.2	94.1	5.2	22.7	167.7	40.8	39.3	369.8	537.8	127.2	94.1	167.7
1992 1993	37.1	141.8	98 1	5.6	22.7 24.4	171.9	40.8 28.9	31.5	360.4	537.8 539.3	127.2 141.8	98.1	167.7 174.9
1994 1995 1996	44.6	152.9 152.1 188.2	97.9 96.2 93.5	5.2	26.4 29.0 29.7	176.4 177.0 183.2 174.9 188.0 188.9	27.6 22.6	33.3 28.4 28.8	366.8	564.3 531.1	152.9 152.1 188.2	97.9 96.2	176.4 177.0 183.2 174.9 189.2 189.9
1995	20.2 20.3	152.1	96.2	5.6	29.0	1//.0	22.6 20.4	28.4	358.8	531.1 570.0	152.1	96.2 93.5	1//.0
1990	20.3 16.4	100.∠ 103.8	93.5	3.9	32.4	174.9	21.7	20.0 20.0	351.0	570.0 568.3	100.2 103.8	96.8	103.2 174.9
1997 1998	16.4 36.1	193.8 239.3	96.8 93.1	2.9	33.3	188.0	24.3	43.8	385.4	568.3 660.8	193.8 239.3 247.0 231.0	93.1	189.2
1999	38.6 38.7	247.0	101.4	4.3	36.5 35.6	188.9	24.3 16.2 9.2	46.2	393.6	679.2	247.0	101.4	189.9
2000	38.7	231.0	107.8	4.9	35.6	186.0	9.2	35.3	378.8	648.4	231.0	107.8	187.2
2001 2002	43.4 37.8	235.6 206.8	101.4 107.8 101.3 103.4 93.2	3.1 5.4 5.0 4.7 4.9 4.8 5.6 5.5 5.7 5.7 5.9 5.0 5.7 5.2 5.6 5.9 3.3 2.9 4.3 4.9 4.9 4.3 4.9	29.6 29.3	186.5 188.9 187.6	8.6 11.1	29.0 43.8 46.2 35.3 22.7 28.7	366.8 358.8 361.6 358.2 385.4 393.6 378.8 352.5 366.3 358.1 368.5 374.6	631.5 610.9	235.6 206.8	101.3 103.4	188.1 191.8 189.8 191.3 194.6 196.8 194.4 185.9
2002	37.6 44.9	215.1	93.2	4.9 5.1	31.7	187.6	12.2	28.3	358.1	618.0	215.1	93.2	191.0
2004	36.5	238.0	103.5	3.7	28.9	189.0	13.0	30.3	368.5	643.0	238.1	103.5	191.3
2004 2005	36.5 35.6	238.0 239.5	103.5 103.9	4.8	28.9 30.6	189.0 190.7	13.0 13.7	30.3 30.8	374.6	643.0 649.7	238.1 239.5	103.5 103.9	194.6
2006 2007 2008	26.9 45.5	229.7 260.2 274.7	107.9	4.1 4.0 6.6	32.7	192.4 188.8 176.0	13.0 16.0	31.2 25.0 23.5	381.2	637.8 680.3	229.7 260.2 274.7	107.9 109.0 108.0	196.8
2007	45.5 41.4	260.2	109.0	4.0	31.9 31.0	188.8 176.0	16.0 11.0	25.0	3/4.6	680.3 672.1	260.2	109.0	194.4 195.0
2000	33.2	274.7	106.0	6.6	37.0	176.0	61	16.8	348.6	636.6	254.7	106.0	187.8
2009 2010	33.2 42.6	254.8 242.9	109.6	6.6 6.1 6.5 5.8	37.0 25.3	176.4 174.9	6.1 10.7	16.8 15.5	381.2 374.6 356.0 348.6 342.1	636.6 627.5	254.8 242.9	106.7 110.3	187.8 185.1 178.8 174.7
2011 2012	35.1 28.3	203.6 220.6	108.3	6.5	25.1 25.5	168.5	7.0 5.8	15.5 15.2	331.0	569.8	203.6 220.6	110.0	178.8
2012	28.3	220.6	103.9 109.0 108.0 105.7 109.6 108.3 106.4	5.8	25.5	168.5 165.0 167.4 168.7 173.0	5.8	15.2	323.7	572.6	220.6	108.2	174.7
2013 2014	38.9 34.2 26.5	244.3 226.5	101.9 107.4 98.7	6.1 6.6	27.2 26.8	167.4	4.6 1.1	15.1 15.2	322.3	605.5	244.3 226.5 245.9	105.2 110.6	177.3 179.5 186.3
2014	34.2 26.5	245.9	107.4 98.7	6.1	26.8 27.8	173.0	2.0	15.6	3∠3.6 323.1	586.5 595.6	220.5 245 Q	101.7	179.5 186 3
2016	19.4	249.8	96.1	6.4	28.8	178.3	0.8	17.5	327.8	597.1	249.8	100.0	191.8
2016 2017	19.4 18.7	249.8 262.5	96.1 97.4	6.4 8.1	28.8 30.8	181.2	0.8 0.1	R 17.6	R 335.3	597.1 R 616.5	249.8 262.5	100.0 101.1	191.8 195.2
2018 2019	16.9 27.4	271.3 302.2 282.5	100.0	8.5 8.9 8.0	34.2	178.3 181.2 181.9 177.8 154.1	0.1	H 15.0	H 339.7	R 627.9 R 664.3 R 601.0	271.3 302.2 282.5	103.4 99.4	195.9 191.7 166.2
2019 2020	27.4 17.8	302.2	96.2	8.9	34.6	177.8	2.2 3.6	n 14.9 B 14.4	n 334.6 B 200.6	n 664.3	302.2	99.4 _ 102.4	191.7
2020	17.8	282.5 305.7	100.0 96.2 98.8 R 103.7 102.3	9.0	21.7 25.5	166.5	0.8	17.5 R 17.6 R 15.0 R 14.9 R 14.4 R 22.0	342.1 331.0 323.7 322.3 325.8 323.1 327.8 R 335.3 R 339.7 R 334.6 R 300.6	R 627.4	305.7	R 102.4	100.∠ 170.7
2021	1.1	297.6	102.3	10.0	28.0	162.6	0.8	28.2	319.2	617.8	297.6	R 105.3 103.8	179.7 175.5

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Oregon (continued) (trillion Btu)

Year   960   1965   1970   1971   1972   1973   1974   1975   1976   1977   1978	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Hydro- electric power e,f	Wood and waste <sup>f,9</sup> 56.4 57.8	Fuel ethanol <sup>h</sup>	Bion Biodiesel	Renewable diesel	Losses and co-						Net		
Year   960   1965   1970   1971   1972   1973   1974   1975   1976   1977   1978	0.0 0.0 0.0 0.0 0.0 0.0 0.0	electric power e,f	waste <sup>f,g</sup> 56.4 57.8	ethanol h	Biodiesel										
1965 1970 1971 1972 1973 1974 1975 1976 1977 1978	0.0 0.0 0.0 0.0 0.0	H 56.3 R 102.1 R 117.3	57.8			ulesei	products i	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1970 1971 1972 1973 1974 1975 1976 1977 1978	0.0 0.0 0.0 0.0	H 102.1 R 117.3		NA NA	NA NA	NA NA	NA NA	56.4 57.8	0.0 0.0	NA NA	NA NA	R 98.9 R 114.2	R 96.6 R 134.7 R 163.3 R 164.8 R 164.3 R 206.7 R 195.1 R 227.6 R 222.6	0.0 0.0	R 448.8
1971 1972 1973 1974 1975 1976 1977 1978	0.0 0.0 0.0	R 117.3	57.4	NA NA	NA NA	NA NA	NA NA	57.4	0.0	NA NA	NA NA	R 159.5	R 163.3	0.0	R 564.3 R 719.9
1973 1974 1975 1976 1977 1978	0.0		57.4 59.2	NA	NA	NA	NA	59.2	0.0	NA	NA	R 159.5 R 176.5	R 164.8	0.0	H 761.4
1975 1976 1977 1978	0.0	R 124.5 R 96.0	57.3	NA NA	NA NA	NA NA	NA NA	57.3 58.6	0.0 0.0	NA NA	NA	R 181.8 R 154.6	n 164.3 B 206.7	(s) 0.0	R 803.9
1975 1976 1977 1978		R 122 g	58.6 56.9	NA NA	NA NA	NA NA	NA NA	56.9	0.0	NA NA	NA NA	R 179.8	R 195.1	0.0	R 798.9
1977 1978	(s) 23.2	H 117.9	57.7	NA	NA	NA	NA	57.7	0.0	NA	NA	H 175.7	R 227.6	(s) 0.0	R 821.9 R 798.9 R 826.8 R 847.9
1978	23.2 69.9	R 120.7 R 83.2	67.3 73.3	NA NA	NA NA	NA NA	NA NA	67.3 73.3	0.0 0.0	NA NA	NA NA	R 188.1 R 156.5	R 222.6 R 211.6	0.0 0.0	
	17.1	H 108 Q	78.0	NA NA	NA NA	NA NA	NA NA	78.0	0.0	NA NA	NA NA	H 186 9	R 257 0	0.0	R 915 8
1979	48.9	H 101 9	78.1 87.2 92.6	NA	NA	NA	NA	78.1	0.0	NA	NA NA	H 180.0	R 245.0	0.0	R 940.5
1980	58.8	R 103.1 R 109.7	87.2	NA	NA	NA	NA	87.2 92.6	0.0	NA NA	NA	R 190.3	H 231.4	0.0	H 909.3
1981 1982	70.9 53.1	R 154.3	92.6 88.3	0.0 (s)	NA NA	NA NA	0.0 0.0	92.6 88.4	0.0 0.0	NA NA	NA NA	R 202.4 R 242.7	R 257.0 R 245.0 R 231.4 R 194.3 R 145.7 R 147.9 R 168.6	0.0 0.0	R 915.8 R 940.5 R 909.3 R 905.9 R 868.8 R 830.0 R 897.7
1983	40.2	R 154.3 R 153.8 R 159.1	100.0 103.7	(s)	NA	NA	0.0	100.0	0.0	NA	(s) 0.0	R 253 8	R 147.9	0.0	R 830.0
1984	51.3	H 159.1	103.7	(s) (s) (s)	NA	NA	0.0	103.7	0.0	0.0	0.0	n 262.8	H 168.6	0.0	H 897.7
1985 1986	73.4 74.9	R 139.1 R 139.1	103.6 106.8	(s) 0.0	NA NA	NA NA	0.0 0.0	103.6 106.8	0.0 0.0	0.0 0.0	0.0 0.0	R 242.7 R 246.0	n 135.1 R 138.2	17.4 4.5	
1987	45.4	n 121.0	107.6	0.0	NA NA	NA NA	0.0	107.6	0.0	0.0	0.0	H 228.6	R 201.2	17.9	R 912.2
1988	67.2	T 112 3	112 6	0.0	NA	NA	0.0	112.6	0.0	0.0	0.0	H 230.9	R 214.5	5.6	R 966.2
1989 1990	56.1 64.3	R 129.7 R 140.7	84.5	0.0 0.0	NA NA	NA NA	0.0 0.0	84.5 57.7	0.4 0.4	0.3 0.3	0.0	R 214.9 R 199.1	H 218.1	7.3 2.9	H 967.8
1990	15.4	n 1/n 2	57.7 55.1	0.0	NA NA	NA NA	0.0	55.1	0.4	0.4	(S)	n 196.0	1.3	4.5	R 737.6
1992	47.9	H 109 2	84.5 57.7 55.1 45.4	1.8	NA	NA	0.0	47.2	0.4	0.4	0.0 (s) (s) (s) 0.0 0.0	H 156 2	R 135.1 R 138.2 R 201.2 R 201.2 R 214.5 R 218.1 F -15.8 1.3 R 52.9 R 76.2 R 113.7 R 56.2 R 15.6 R 15.9 R 15.9	3.0	R 863.8 R 912.2 R 966.2 R 967.8 R 724.0 R 737.6 R 797.6
1993 1994	-0.2 0.0	H 122.4	43.6 45.1	3.0 0.0	NA NA	NA NA	0.0	46.6 45.1	0.4 0.4	0.4 0.5	0.0	R 169.8 R 152.4	H 76.2	3.7 3.6	H 788.8
1994	0.0	R 122.4 R 106.5 R 139.1	45.1 45.9	0.0	NA NA	NA NA	0.0	45.1 45.9	0.4	0.5	0.0	R 185.9	N 113.7 R 56.2	3.b 2.8	R 788.8 R 834.1 R 776.0 R 791.7 R 796.1 R 854.2 R 861.4 R 875.0
1996	0.0	H 153 2	45.9 52.1 52.6	0.0	NA	NA	0.0	52.1	0.4	0.5 0.6	0.0 0.0	H 206.3	R 5.9	2.8 9.5	R 791.7
1997	0.0	H 150 /	52.6	0.0	NA	NA	0.0	52.6	0.4	0.6	0.0 R 0.1 R 0.3 R 0.2	H 213 0	R 12.2	2.6	R 796.1
1998 1999	0.0 0.0	R 136.1	46.1	1.2 1.0	NA NA	NA NA	0.0 0.0	47.4	0.5	0.6	™ 0.1 R o 3	R 184.7 R 199.3	R 6.8 R -18.2 R 47.5	2.0 1.1	™ 854.2 R 861.4
2000	0.0	R 155.7 R_130.1	40.9 45.8	1.2	NA NA	NA NA	0.0	42.0 46.9	0.7 0.8	0.6 0.6	R 0.3	H 178 6	R 47.5	0.5	R 875.0
2001	0.0	H 97 7	51.5	1.5 2.9	(s)	NA	0.0	53.1	0.9	R 0.6	R <sub>0.3</sub>	R 152.6	R 58.5	0.5	R 843.1
2002	0.0	R 117.4	45.2	2.9 2.2	(s)	NA NA	0.0 0.0	48.1 44.0	0.9	0.7	H 1.3	R 168.3 R 160.5	H 18.4	5.0 0.9	H 802.6
2003 2004	0.0	R 113.5 R 112.9	41.7 45.5	2.2	(s) 0.1	NA NA	0.0	44.0 47.9	0.9 0.9	R 0.6 0.7 0.7 0.7	R 0.3 R 1.3 R 1.5 R 2.1	R 164 4	R -13.5	8.3	R 843.1 R 802.6 R 790.5 R 802.3
2005	0.0	R 105.6	45.5	4.0	0.2	NA	0.0	49.7	1.0	0.7	R 2.5	R 159 5	R 23.9	0.3	R 833.4
2006	0.0	R 105.6 R 129.1 R 114.6	45.5 46.5 48.5	4.4	0.6	NA	0.0	51.5	1.0	0.7 0.9 R 1.0 1.2 R 1.2 R 1.3	R 2.5 R 3.2 R 4.3	R 185.7 R 176.7	R 58.5 R 18.4 R 11.0 R -13.5 R 23.9 F 1.6 R -13.2	(s) 4.2	R 833.4 R 825.1 R 848.0 R 832.9
2007 2008	0.0 0.0	R 115.3	48.5 43.4	5.6 9.9	0.8 0.7	NA NA	0.8 4.2	55.8 58.2	1.0 1.0	1.0	R 8.8	R 184.5		4.2 1.1	R 832 0
2009 2010	0.0	R 112.7 R 104.2	49.0 54.9	11.4	0.7	NA	3.2	64.3	1.1	R 1.2	R 11.8	B 101 2	R -26.0	1.0	R 802.7
2010	0.0	R 104.2	54.9	10.2	0.6	NA	2.0	67.7	1.1	R 1.3	R 13.4	R 187.7	R -29.6	0.7	R 786.3
2011 2012	0.0 0.0	R 144.4 R 134.5	52.1 55.1 65.4 65.9	10.3 9.7	2.0 2.4	0.0 0.0	1.9 1.8	66.3 69.0	1.3 R 1.3	R 1.4 R 1.5 R 1.6 R 1.7 R 1.7	R 11.8 R 13.4 R 16.3 R 21.6 R 25.8 R 22.8 R 24.4 R 21.2 R 22.4 R 22.4 R 29.9 R 32.0	R 229.6 R 227.9	R -26.0 R -29.6 R -42.1 R -51.1 R -43.3 R -45.4 R -45.7	1.0 1.6	R 802.7 R 786.3 R 758.2 R 751.0 R 784.3 R 773.8 R 783.2 R 788.3
2012	0.0	H 112 Q	65.4	9.9	2.8	0.0	2.0	80.1	H12	R 1.6	R 25.4	H 221.9	R -43.3	0.2	R 784.3
2014	0.0	H 120 3	65.9	10.8	3.6	0.0	2.3	82 6	R 1 9	R 1.7	R 25.8	R 232.2	R -45.4	0.5	R 773.8
2015	0.0	R 106.6 R 117.9	74.0 70.5	13.3	4.0	0.0	2.1	R 93.4 92.0	R 1.8 R 1.9	H 1.7	H 22.6	R 226.2 R 238.2	H -45.7 R -49.8	7.1	H 783.2
2016 2017	0.0 0.0	R 130.7	76.6	13.5 14.0	6.0 6.5	0.0 0.1	2.0 2.2	99.3	H 1.8	R 2.0 R 2.7 R 4.0 R 4.5 R 6.0	R 21.2	H 255.7	R -48 9	2.8 3.5	R 826.9
2018	0.0	H 120 9	78.0	13.9	6.5 6.7	0.1 0.2	2.2	101.0	H1Ω	R 4.0	R 25.4	R 253.2	R -48.9 R -58.7	1.5	R 826.9 R 823.9
2019 2020	0.0	R 103.5 R 108.9	79.0 R 69.9	13.9	7.6 8.8	2.5	2.0	R 105.1 R 95.7	R 1.9 R 1.9	H 4.5	H 22.4	R 237.3 R 242.4	R -45.1 R -47.1	0.0	R 856.4 R 796.3
2020 2021	0.0 0.0	1108.9 R 94.4	R 70.9	12.1 13.2	8.8 9.8	2.5 3.1 R 1.6	1.8 1.6	R 95.7	H 1.9	N 6.0 R 7 4	R 32 0	R 232.8	R -18.0	0.0 0.0	R 842 2
2021 2022	0.0	106.8	70.5	13.0	10.5	7.4	1.4	102.8	1.8	R 7.4 8.3	27.8	247.5	-8.1	0.0	R 842.2 857.3

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Oregon

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total h,m
1960	381	30	10,966	1,164	384	16,361	5,558	3,430	37,863	77					13,593			
1970	140	94	12,904	1,251	2,086	24,958	6,614	4,833	52,646	77					25,648			
1980	230	78	16,655	1,354	2,465	30,511	4,511	4,649	60,144	28					37,848			
1990 2000	84 0	102 155	15,846 18,414	1,384 1,320	3,319 6,277	31,728 35,989	4,430 1,468	5,582 5,583	62,289 69,052	0					42,977 50,330			
2005	9	145	17,760	1,278	5,402	37,488	2,186	4,787	68,900	0					46,419			
2006	109	147	18,575	1,092	5,764	37,956	2,069	4,863	70,320	0					48,069			
2007	95	150	18,838	1,066	5,630	37,810	2,539	3,914	69,798	0					48,697			
2008	69	152	18,666	1,774	5,464	36,410	1,746	3,689	67,748	0					49,187			
2009 2010	79 77	140 130	18,468 19,089	1,794 1,594	6,525 4,466	36,902 36,523	968 1,696	2,650 2,451	67,307 65,818	0					47,567 46,026			
2010	77	139	19,069	1,691	4,435	35,307	1,115	2,445	64,050	0					47,171			
2012	75	134	18,757	1,508	4,495	34,508	929	2,377	62,574	0					46,689			
2013	85	138	18,241	1,586	4,794	35,040	730	2,410	62,801	0					47,641			
2014	109	130	19,166	1,712	4,727	35,472	174	2,429	63,680	0					47,335			
2015	100	121	17,643	1,586	4,895	36,831	315	2,487	63,757	0					47,264			
2016	0	129	17,358	1,661	5,079	37,952	120	R 2,764 R 2,779	R 64,934 R 66,517	0					47,349			
2017 2018	41 61	143 132	17,550 17,953	2,098 2,201	5,435 6,038	38,635 38,758	21 14	R 2,386	R 67,351	0					50,044 49,326			
2019	52	143	17,243	2,329	6,103	37,949	343	R 2,363	R 66,330	0					50,404			
2020	35	138	17,779	2,076	3,834	32,895	576	R 2,287	R 59.447	0					51,019			
2021	57	142	R 18,261	2,336	4,505	35,580	129	R 3,664	R 64,475	0					54,135			
2022	48	147	17,998	2,616	4,939	34,768	132	4,790	65,244	0					56,327			
									Trillion	Btu								
1960	8.9	31.2	63.9	4.4	2.1	85.9	34.9	21.1	212.4	R <sub>0.3</sub>	56.1	NA	NA	NA	46.4	R 355.3	R 93.5	R 448.8
1970	3.0	98.5	75.2	4.8	11.8	131.1	41.6	30.0	294.4	R <sub>0.3</sub>	57.0		NA	NA	87.5	R 540.7	R 179.3	R 719.9
1980	4.2	82.0	97.0	5.0	13.9	160.3	28.4	29.1	333.7	R 0.1	85.5		NA	NA	129.1	R 634.6	R 274.7	R 909.3
1990 2000	1.5	104.1 160.3	92.3 107.2	5.0	18.8 35.6	166.7 187.2	27.9 9.2	35.3 35.3	345.9 379.3	0.0	50.6 39.6		0.4	0.3 0.6	146.6 171.7	649.4 752.4	R 74.7 R 122.7	<sup>R</sup> 724.0 <sup>R</sup> 875.0
2000	0.0 0.2	149.8	107.2	4.9 4.8	30.6	187.2	13.7	30.8	379.3	0.0	39.6		0.8	0.6	171.7	752.4 726.7	R 106.7	R 833.4
2005	2.7	152.7	107.8	4.0	32.7	194.6	13.7	31.2	385.6	0.0	39.1	0.0	1.0	0.7	164.0		R 78.6	R 825.1
2007	2.3	155.4	109.0	4.0	31.9	194.4	16.0	25.0	380.2	0.0	41.8		1.0	R 1.0	166.2	R 749.5	R 98.5	R 848.0
2008	1.7	155.6	107.9	6.6	31.0	185.9	11.0	23.5	365.8	0.0	38.9			_ 1.2	167.8	R 736.9	R 96.0	R 832.9
2009	1.9	143.7	106.7	6.6	37.0	187.8	6.1	16.8	361.0	0.0	43.8		1.1	R 1.2		R 718.3	R 84.7	R 803.0
2010	1.9	131.5	110.2	6.1	25.3	185.1	10.7	15.5	352.9	0.0	49.5		1.1	R 1.3 R 1.4	157.0	R 697.3	R 89.2	<sup>R</sup> 786.4 <sup>R</sup> 757.8
2011 2012	1.8 1.7	142.3 137.4	110.0 108.2	6.5 5.8	25.1 25.5	178.8 174.7	7.0 5.8	15.5 15.2	342.9 335.1	0.0	47.2 49.8		1.3 1.2	R 1.5	160.9 159.3	R 699.7 R 687.9	R 58.2 R 62.5	R 750.4
2012	2.0	137.4	105.1	6.1	25.5	174.7	4.6	15.1	335.4	0.0	49.6 58.9			H 1.5	162.6	R 703.3	R 81.4	R 784.8
2014	2.5	133.7	110.5	6.6	26.8	179.5	1.1	15.2	339.6	0.0	58.1	2.3	1.2	R 1.6	161.5	R 700.7	R 72.7	R 773.4
2015	2.4	127.6	101.7	6.1	27.8	186.3	2.0	15.6	339.4	0.0	R 67.2		1.2	R 1.7	161.3	R 702.7	R 79.5	R 782.3
2016	0.0	138.1	99.9	6.4	28.8	191.8	0.8	17.5	345.2	0.0	63.6			R 1.9		R 713.6	R 72.6	R 786.2
2017	1.0	152.8	101.0	8.1	30.8	195.2	0.1	R 17.6	R 352.9 R 357.0	0.0	R 70.5 R 71.1			R 2.0 R 2.1	170.7	R 753.3 R 744.7	R 70.7	R 824.0 R 820.5
2018 2019	1.4 1.2	141.3 150.8	103.4 99.3	8.5 8.9	34.2 34.6	195.9 191.7	0.1 2.2	<sup>R</sup> 15.0 <sup>R</sup> 14.9	R 357.0	0.0	'' 71.1 72.4	2.2	1.2 1.2	R 2.2	168.3 172.0	R 753.4	R 75.8 R 96.0	R 849.4
2019	0.8	145.3	102.3	8.9	21.7	166.2	3.6	R 14.4	R 316.3	0.0	R 63.3		1.2	R 2.3	172.0	R 705.1	R 82.8	R 787.9
2021	1.3	150.1	R 105.3	9.0	25.5	179.7	0.8	R 22.0	R 342.2	0.0	R 63.9		1.2	R 2.5	184.7	R 747.5	R 91.8	R 839.4
2022	1.1	157.5	103.8	10.0	28.0	175.5	0.8	28.2	346.4	0.0	64.0		1.2	2.8	192.2		87.1	853.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Oregon

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	94	7	2,865 3,382	400	1	3,265				5,263			
1965	73	11	3,382	619	5	4,006				7,169			
1970 1975	18 4	20 29	3,101 2,390	684 286	65 48	3,850 2,723				9,850 12,096			
1980	4	18	2,019 2,308	452 407	37	2,508 2,756				13,545 14,526			
1985 1990	1	21 23	2,308 1,592	407 299	41 13	2,756 1,904				14,526 15,380			
1995	(s) (s)	28 28	1,276	385	26	1,687				16,315			
2000	0	39	983	492	186	1.660				18.212			
2005 2006	0	40 41	623 649 558	684 525	76 51	1,383 1,226				18,339 18,978			
2007	0	43	558	505	8	1,071				19,374			
2008	0	45	666 545 429	644	11	1,320				19,910			
2009 2010	0	45 41	545	775 623	61 60	1,381 1,111				19,804 18,839			
2010	0	47	405	631	63	1,099				19,429			
2012	Ō	43	405 369	480	63 31	879				18,855			
2013 2014	0	46	355	597 669	24	976 989				19,329 18,618			
2014	0	41 37	355 293 294	502	24 27 22	818				18,269			
2016	0	39	308	490	42	840				18,573			
2017 2018	0	48 43	340 258	577 743	26 21	943 1,023				20,066 18,931			
2019	0	48	228	858	26	1,113				19,286			
2020	0	45	221	676	29	927				19.628			
2021 2022	0	46 49	323 323	879 642	27 24	1,229 989				20,285 20,726			
LOLL		-10	020	012	2-1		Trillion Btu			20,720			
1960	0.0	7.0	16.7	1.5	(a)	18.2	18.4	NA	NA	18.0	64.0	R 36.2	R 100.2
1965	2.3 1.8	11.6	19.7	1.5 2.4	(s) (s)	22.1	13.2	NA NA	NA NA	24.5	73.2	R 48.1 R 68.8	R 121.3
1965 1970	0.4	20.6	19.7 18.1	2.6	0.4	22.1 21.1	13.2 9.2	NA NA	NA	24.5 33.6	73.2 84.9	R 68.8	R 121.3 R 153.8
1975 1980	0.1 0.1	29.9 19.2	13.9 11.8	1.1 1.7	0.3 0.2	15.3 13.7	9.8 6.2	NA NA	NA NA	41.3 46.2	96.3 85.5	R 84.3 R 98.3	R 180.6 R 183.8
1985	(s)	22.1	13.4	1.6	0.2	15.2	10.6	NA	NA NA	49.6	97.5	H 100.7	R 183.8 R 198.3
1990	(s)	23.9 29.3	9.3	1.1	0.1	10.5	7.8 9.9	0.1	0.3 0.5	52.5 55.7	95 1	R 26.7 R 30.8	R 121.8
1995 2000	(s) 0.0	29.3 39.9	7.4 5.7	1.5 1.9	0.1 1.1	9.1 8.7	9.9 8.6	0.1 0.3	0.5 0.6	55.7 62.1	104.5 120.2	R 44.4	R 121.8 R 135.4 R 164.6
2005	0.0	41.2	3.6	2.6	0.4	6.7	9.9	0.3	0.0	62.6	121.4	R 42 2	R 163.6
2006	0.0	42.5	3.8	2.0	0.3	6.1	8.8	0.3	0.9	64.8	123.3	R 31.0 R 39.2	R 163.6 R 154.3 R 165.8
2007 2008	0.0 0.0	44.3 46.2	3.2 3.8	1.9 2.5	(s) 0.1	5.2 6.4	9.7 10.9	0.3 0.3	1.0 1.1	66.1 67.9	126.6 132.8	n 39.2 R 38.8	<sup>n</sup> 165.8 R 171.6
2009	0.0	46.0	3.1	3.0	0.3	6.5	15.9	0.3	1.2	67.6	132.8 R 137.4	R 38.8 R 35.3	R 171.6 R 172.7 R 165.8 R 161.2
2010	0.0	41.1	2.5 2.3 2.1	2.4	0.3	5.2	17.1	0.4	R <sub>12</sub>	64.3	129.3	H 36 5	R 165.8
2011 2012	0.0 0.0	47.6 44.3	2.3	2.4 1.8	0.4 0.2	5.1 4.1	16.6 13.8	0.4 0.4	R 1.3 P 1.3	66.3 64.3	R 137.3 R 128.3	R 24.0 R 25.2	P 161.2 P 153.6
2013	0.0	46.7	2.0	2.3	0.1	4.5	18.0	0.4	H14	65.9 63.5	H 136.9	н 33 0	R 170.0 R 159.0
2014	0.0	42.4	1.7	2.6	0.2	4.4	18.3	0.4	R 1.5	63.5	R 130.4	R 28 6	R 159.0
2015 2016	0.0 0.0	39.0 42.2	1.7 1.8	1.9 1.9	0.1 0.2	3.7 3.9	R 20.7 20.9	0.4 0.4	R 1.5 R 1.6	62.3 63.4	R 127.7 R 132.4	R 30.7 R 28.5 R 28.4	R 158.4 R 160.8 R 176.7
2017	0.0	51.2	2.0	2.2	0.1	4.3	22.3	0.4	H 1.7	68.5	R 132.4 R 148.3	R 28.4	R 176.7
2018	0.0	45.5	1.5	2.9	0.1	4.5	24.2	0.4	H 1.7	64.6	R 140.9	H 29.1	H 170 0
2019 2020	0.0 0.0	50.5 48.0	1.3 1.3	3.3 2.6	0.1 0.2	4.8 4.0	27.1 R 16.9	0.4 0.4	R 1.8 R 1.9	65.8 67.0	R 150.3 R 138.2	R 36.7 R 31.8	R 187.1 R 170.0
2021	0.0	48.9	1.9	3.4	0.2	5.4 4.5	H 17.2	0.4	R 1.9 R 2.0 2.3	69.2	<sup>H</sup> 143.1	R 31.8 R 34.4	<sup>H</sup> 177.5
2022	0.0	52.6	1.9	2.5	0.1	4.5	18.4	0.4	2.3	70.7	148.8	32.1	180.9

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Oregon

					Pet	troleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	66	3	1 /05	107	(a)	120	991	2 911	NA			NA	3 083			
1965	66 55	6	1,485 1,752	197 305	(s) 4	139 206	1,046	2,811 3,313	NA			NA	3,083 4,557			
1970 1975	14 10	11 16	1,607 1,238	337 141	46 34	249 218	1,326 962	3,565 2,593	NA NA			NA NA	6,674 8,804			
1980	13	15	1,792	223	37	291	876	3,219	NA			NA	10.456			
1985 1990	2	19 20	1,345 1,192	201 147	26 8	231 272	191 283	1,993 1,903	NA 0			NA (s)	10,340 12,091			
1995	1	22 29	1,061	190	14	33	87	1,384	Ŏ			(s)	13,558			
2000 2005	0	29 28	994 516	242 260	28 61	29 32 64 32	61 49	1,355 917	0			(s) (s)	15,730 15,380			
2006	ŏ	28	477	250	42	64	40	872	ő			`1	16,083			
2007 2008	0	29 30	471 589	244 375	13 10	32 32	32 41	793 1,047	0			2 9	16,187 16,313			
2009	ő	30	720	360	18	32	36	1,166	ő			16	15,978			
2010 2011	0	27 30	743 517	345 360	7 11	32 32 32 32 32	26 30	1,153	0			26	15,454 15,754			
2012	0	29	309	357	4	32	15	951 717	0			28 37	15,804		==	
2013 2014	0	31 28	279 360	305 308	3	33 31	3	624 704	0			39 41	16,080 16,039			
2014	0	26	385	344	4 5	888	(s) 0	1,622	0			41	16,039			
2016	0	27	398	451	1	924	0	1,774	0			71	16,060			
2017 2018	0	32 29	409 522	894 911	2 1	938 955	0	2,243 2,389	0			79 86	16,571 16,470			
2019	Ö	29 32	409	987	1	966	Ö	2,363	Ö			88	16,423			
2020 2021	0	28 30	526 426	926 1,058	1 2	969 975	0	2,423 2,461	0 0			99 108	15,749 16,509			
2022	ő	33	420	1,051	2	992	ő	2,464	ő			124	16,655			
								Tri	lion Btu							
1960	1.6	3.2	8.6	0.8	(s)	0.7	6.2 6.6	16.4	NA	0.3 0.3	NA	NA	10.5	32.1	R 21.2 R 30.6	R 53.3 R 72.8
1965 1970	1.4 0.3	6.0 11.9	10.2 9.4	1.2 1.3	(s) 0.3	1.1 1.3	6.6 8.3	19.1 20.6	NA NA	0.3 0.2	NA NA	NA NA	15.5 22.8	42.2 55.7	H 46 6	<sup>R</sup> 72.8 R 102.3
1975	0.2	16.5	7.2	0.5	0.2	1.1	6.0	15.1	NA	0.2	NA	NA	30.0	62.1	R 61.3	H 123 4
1980 1985	0.3 0.1	15.9 19.6	10.4 7.8	0.9 0.8	0.2 0.1	1.5 1.2	5.5 1.2	18.5 11.2	NA NA	0.2	NA NA	NA NA	35.7 35.3	70.5 66.4	R 75.9 R 71.7	R 146.4 R_138.1
1990	(s)	20.9	6.9	0.6	(s)	1.4	1.8	10.8	0.0	0.3 2.0	0.2	(s)	41.3	75.2	R 21 0	R 96.2
1995	(s)	23.4	6.2	0.7	0.1 0.2	0.2	0.5	7.7	0.0	1.4	0.2	(s)	46.3	79.0 92.4	R 25.6 R 38.3 R 35.4	n 104.6
2000 2005	0.0	29.5 28.6	5.8 3.0	0.9 1.0	0.2	0.1 0.2	0.4 0.3	7.4 4.8	0.0 0.0	1.4 1.6	0.4 0.6	(s) (s)	53.7 52.5	92.4 88.1	R 35.4	R 130.7 R 123.4
2006	0.0	28.8	2.8	1.0	0.2	0.3	0.2	4.5	0.0	1.5	0.5	(s)	54.9	90.3	R 26.3 R 32.7	R 116.6 R 124.3
2007 2008	0.0 0.0	30.0 31.2	2.7 3.4	0.9 1.4	0.1 0.1	0.2 0.2	0.2 0.3	4.1 5.3	0.0 0.0	1.7 1.9	0.5 0.5	R (s)	55.2 55.7	R 91.5 R 94.6	R 32.7 R 31.8	R 124.3 R 126.5
2009	0.0	30.5	4.2	1.4	0.1	0.2	0.2	6.0	0.0	2.5	0.6	n () 1	54.5	H 94.2	R 28.5 R 29.9	R 122.6 R 119.3
2010	0.0	27.5 31.0	4.3	1.3 1.4	(s) 0.1	0.2 0.2	0.2 0.2	6.0 4.8	0.0	2.5 2.4	0.6 0.7	R 0.1 R 0.1	52.7 53.8	R 89.3 R 92.8	R 29.9 R 19.4	R 119.3
2011 2012	0.0 0.0	31.0 29.5	3.0 1.8	1.4		0.2 0.2	0.2 0.1	4.8 3.4	0.0 0.0	2.4	0.7 0.7		53.8 53.9	R 89 7	R 21.1	R 112.2 R 110.9
2013	0.0	30.8	1.6	1.2	(s) (s)	0.2	(s)	3.0	0.0	2.4	0.7	R 0.1	54.9	R 91 9	R 21.1 R 27.5	H 1194
2014 2015	0.0 0.0	29.2 27.0	2.1 2.2	1.2 1.3	(s) (s)	0.2 4.5	(s) 0.0	3.4 8.1	0.0 0.0	2.5 3.3	0.7 0.7	R 0.1 R 0.1	54.7 54.7	R 90.7 R 93.8	R 24.6 R 27.0	R 115.3 R 120.8
2016	0.0	28.6	2.3	1.7	(s)	4.7	0.0	8.7	0.0	4.1	0.7	H 0 2	54.8	R 07 1	H 24 6	H 191 7
2017 2018	0.0 0.0	34.0 31.0	2.4 3.0	3.4 3.5	(s)	4.7 4.8	0.0 0.0	10.5 11.3	0.0 0.0	4.4 4.0	0.7 0.7	R 0.3 R 0.3	56.5 56.2	R 106.4 R 103.4	R 23.4 R 25.3	R 129.9 R 128.7
2019	0.0	34.1	2.4	3.8	(s)	4.9	0.0	11.0	0.0	4.2	0.7	Ros	56.0	T 106 /	R 31.3 R 25.6	H 137 7
2020 2021	0.0 0.0	29.9 31.4	3.0 2.5	3.6	(s)	4.9 4.9	0.0 0.0	11.5	0.0 0.0	4.5 4.4	0.7 0.7	R 0.3 R 0.4	53.7 56.3	R 100.4 R 100.6 R 104.6	R 25.6 R 28.0	R 126.2 R 132.6
2021	0.0	31.4 35.0	2.5	4.1 4.0	(s) (s)	4.9 5.0	0.0	11.5 11.5	0.0	3.8	0.7	0.4	56.8	104.6	25.8	132.6
					1-7			-								

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Oregon

					Petrol	eum				Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet	1		Thousand	l barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960 1965	217 175	20	3,723 4,287	558 33	1,080 808	3,411 3,398	2,473 3,735	11,244	77				NA	5,247 7,167			
1965	175	20 39	4,287	33	808	3,398	3,735	12,262	61				NA	7,167			
1970 1975	109 116	58 57	3,413 2,827	212 287	722 560	4,217 2,922	3,930 4,945	12,495 11,541	77 40				NA NA				
1980	213	39	3.992	614	417	2.528	3.785	11.337	28				NA	13.847			
1985	170 82	38	2,475	728 755	482 425	1,679	3,854	9,219	28				ŅĄ	11,081			
1990 1995	82 147	49 69	2,537 3,556	755 850	425 513	447 325	4,897 3,774	9,060 9,018	0	==			(s) (s)	15,498 15,839			
2000	0	76	3,602	523	403	138	4,678	9,345	0				(s)	16,353			
2005	9	70	1,844	163	968	266	4,040	7,281	ő				(s)	12,684			
2006	109 95	70	1,859	173	1,018	468	4,112	7,630	0				(s)	12,991			
2007 2008	95 69	69 69	1,675 2,153	213 540	868 706	328 220	3,223 3,048	6,307 6,667	0	==			(s) (s)	13,117 12,945			
2009	79	69 57	2,133	499	686	161	2.046	5,478	0	==			(5)	11,761		==	
2010	79 77	56	2,020	619	776	161 96	2,046 1,914	5,425	Ō				1	11,708			
2011	77	57	2,545	693	975	163	1,936 1,938	6,312	0				1	11,963			
2012 2013	75 85	58 57	2,526 2,033	665 675	811 868	109 119	1,938 1,991	6,049 5,687	0				2 2	12,006 12,210			
2013	109	57	2,033	725	507	60	2.007	5.771	0				2	12.654			
2015	100	54	2,495	727	645	63	2 042	5.973	Ö				4	12,950			
2016	0	58	2,824	705	640	120	R 2,323	R 6,612	0				13				
2017 2018	41 61	58 54	2,563 2,256	541 516	648 658	21 14	R 2,375 R 1,973	R 6,148 R 5,417	0				15 15	13,382 13,899			
2019	52	57	2,215	423	653	0	H 1 972	R 5,263	0				16	14,668			
2020	35 57	57	2,055	458	652	0	R 1 Q//	R 5.110	Ö				16	15,617			
2021	57	58	2,448	377	642	12	H 2,006	R 5,486	0				16				
2022	48	56	2,475	862	680	12	2,085	6,113	0				19	18,924			
									Trillion Bt								
1960	4.9	20.9	21.7	2.1	5.7	21.4	16.0	66.9	R <sub>0.3</sub>	37.3	NA	NA	NA	17.9	R 148.2	R 36.1	R 184.3
1965 1970	3.9 2.3	41.5 60.3	25.0 19.9	0.1	4.2	21.4	23.6 24.9	74.3 75.8	R 0.2 R 0.3	44.1 47.6	NA NA	NA NA	NA NA	24.5 31.1	R 188.5 R 217.4	R 48.1 R 63.8	R 236.6 R 281.1
1975	2.3	59.6	16.5	0.8 1.0	3.8 2.9	26.5 18.4	31.6	70.4	R 0.1	47.8	NA NA	NA NA	NA NA		R 222.6	R 86.4	R 309.0
1980	3.8	41.0	23.3	2.2	2.2	15.9	24.2	67.7	R 0.1	79.2	NA	NA	NA	47.2	H 239.0	R 100.5	H 339.5
1985	3.0	39.0	14.4	2.5	2.5	10.6	24.9	54.9	R 0.1	92.7	0.0	NA	ŅĄ		R 227.6	R 76.8	R 304.4
1990 1995	1.4 2.8	50.1 72.0	14.8 20.7	2.6 2.9	2.2 2.7	2.8 2.0	31.2 24.3	53.7 52.7	0.0 0.0	40.8 27.5	0.0 0.0	0.1 0.1	(s) (s)	52.9 54.0	198.9 209.1	R 26.9 R 29.9	R 225.8
2000	0.0	78.7	21.0	1.8	2.1	0.9	30.1	55.8	0.0	29.6	0.0	0.1	(s)	55.8	220.0	R 39 9	R 239.1 R 259.8
2005	0.2	72.2	10.7	0.6	5.0	1.7	26.5	44.5	0.0	26.9	0.0	0.2	(s)	43.3	187.2	R 39.9 R 29.2	H 216.4
2006	2.7	72.6	10.8	0.6	5.3	2.9	26.9	46.5	0.0	28.8	0.0	0.2	(s)	44.3	195.1	R 21.3 R 26.5	R 216.3 R 214.0
2007 2008	2.3 1.7	71.1 70.5	9.7 12.4	0.7 1.8	4.5 3.6	2.1 1.4	21.0 19.8	37.9 39.1	0.0 0.0	30.4 26.1	0.8	0.2	(s)	44.8 44.2	187.5 185.9	n 26.5	R 214.0 R 211.2
2008	1.7	58.8	12.1	1.7	3.5	1.0	13.3	31.5	0.0	25.4	3.2	0.2	(s)	40.1	161.1	R 21.0	R 182 0
2010	1.9	56.3	11.7	2.4	3.9	0.6	12.4	31.0	0.0	30.0	4.2 3.2 2.0	0.2 0.2 0.2	(s)	39.9	161.2	R 25.3 R 21.0 R 22.7	R 182.0 R 183.9
2011	1.8	58.3	14.7	2.7	4.9	1.0	12.6	35.9	0.0	28.2	1.9	0.2	(s)	40.8	167.1	H 14.8	R 181.9
2012	1.7	58.8	14.6	2.6	4.1	0.7	12.6	34.6	0.0	33.9	1.8	0.2	(s)	41.0	172.0 R 174.3	R 16.1 R 20.9	R 188.0 R 195.2
2013 2014	2.0 2.5	57.9 58.2	11.7 14.2	2.6 2.8	4.4 2.6	0.7 0.4	12.7 12.8	32.1 32.8	0.0 0.0	38.5 37.4	2.0 2.3	0.2 0.2	(s)	41.7 43.2	176.5	R 19.4	R 196.0
2015	2.4	56.5	14.4	2.8	3.3	0.4	13.0	33.9	0.0	43.2	2.1	0.2		44.2	182.5	R 21.8 R 19.5	H 204.2
2016	0.0	61.9	16.3	2.7	3.2	0.8	1/1 0	27.0	0.0	38.6	2.0	0.2 0.2	R (s)	43.3	184.0	R 19.5	H 203.4
2017	1.0	61.9	14.8	2.1	3.3	0.1	R 15.3 R 12.6	R 35.5 R 31.0	0.0	43.8	2.2	0.2	0.1	45.7	R 190.2	R 18.9 R 21.4	R 209.1
2018 2019	1.4 1.2	58.0 60.1	13.0 12.8	2.0 1.6	3.3 3.3	0.1 0.0	R 126	Rana	0.0	42.9 41.1	2.2 2.0	0.2 0.2	0.1 0.1	47.4 50.0	183.2 184.9	H 27 Q	R 204.5 R 212.8
2020	0.8	59.9	11.8	1.8	3.3	0.0	H 12 5	R 29 3	0.0	42.0	1.8		0.1	53.3	R 187.3	R 25.3 R 29.4	R 212.6
2021	1.3	61.5	14.1	1.4	3.2	0.1	H 12.9	rt 31.8	0.0	42.4	1.6	0.2 0.2	0.1	59.1	197.8	R 29.4	H 227.2
2022	1.1	60.5	14.3	3.3	3.4	0.1	13.4	34.5	0.0	41.7	1.4	0.2	0.1	64.6	203.9	29.3	233.2

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Oregon

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	4	(s)	655 277	2,893 3,664 4,782	10	384 812	301	15,142 18,824	1,157	20,542 24,654 32,736	0			
1965 1970	1 (s)	1	277 305	3,664	4 18	812 2,086	404 487	18,824 23,987	670 1,070	24,654	0		 	
1975	(s)	8	171	6 783	13	2,079	490	28 125	438	38.098	0			
1980	0	6	260	8,851	13 65	2,465	490 530	29,803	438 1,107	43,080	Ö			
1985 1990	0	5	141 121	8,895 10,526	191 183	2,142 3,319	482 542	28,335 31,030	3,091 3,700	43,277 49,421	0			
1990	0	9	143	10,526	110	5,114	542 518	33,476	3,700 3,178	53,163	14			
2000	ŏ	12	139	12,835 14,777	63	6,277	553	35,557	1.268	56.692	35			
2005	0	7	144	14,777	172	5,402	466	36,488	1,871	59,319	17			
2006 2007	0	8 10	204 202	15,590 16,134	144 104	5,764 5,630	454 469	36,873 36,910	1,562 2,179	60,592 61,627	18 18			
2007	0	8	185	15.258	215	5,464	436	35,671	1.485	58.714	19			
2008 2009	Ö	8	185 134	15,258 15,116	160	5,464 6,525	436 392	36,184	1,485 772	58,714 59,283	24			
2010	0	7	138	15,897	7	4,466 4.435	332	35,715	1.573	58.128	25			
2011 2012	0	5 5	129 124	15,590 15,553	, 6	4,435 4,495	306 281	34,300 33,666	922 804	55,689 54,929	25 25			
2013	0	4	100	15,573	8	4,794 4,727	292	34.139	608	55.515	22			
2014	0	4	91	15,573 16,042	10	4,727	292 299 319	34,934	114	56,216	23 24			
2015	0	5 5	99 101	14,469 13,828	13 15	4,895	319	35,298 36.387	251 0	55,345 55,708	24 24			
2016 2017	0	5	98	14,237	85	5,079 5,435	297 R 279	35,387	0	55,708 57 184	24 25			
2018	ŏ	6	122 109	14,916	31	6,038	270 R 255	37,146	ŏ	57,184 R 58,523 R 57,592	26			
2019	0	6	109	14,390	61	6,103	R 255	36.330	343	R 57,592	27			
2020 2021	0	7 8	74 74	14,977 R 15,064	15 23	3,834 4,505	238 R 246	31,273 33,962	576 117	50,988 R 55,300	26 23			
2022	0	9	77	14,781	61	4,939	254	33,097	120	55,678	23			
							Tri	Ilion Btu						
1960	0.1	0.1	3.3	16.9	(s) (s) 0.1	2.1 4.5	1.8	79.5	7.3 4.2	111.0	0.0	111.1	0.0	111.1
1965	(s) (s)	0.7 5.8	1.4 1.5	21.3 27.9	(s)	4.5 11.8	2.4 3.0	98.9 126.0	4.2 6.7	132.8 176.9	0.0 0.0	133.6 182.7	0.0 0.0	133.6 182.7
1970 1975	(s)	8.2	0.9	39.5	(s)	11.7	3.0	147.7	2.8	205.6	0.0	213.8	0.0	213.8
1980	0.0	5.9 4.7	1.3 0.7	51.6	0.2	13.9	3.2 2.9 3.3 3.1	156.6	7.0	233.8	0.0	239.6	0.0	239.6
1985	0.0	4.7		51.8	0.7	12.1	2.9	148.8	19.4	236.5 270.9	0.0	241.3	0.0	241.3
1990 1995	0.0 0.0	9.2 7.6	0.6 0.7	61.3 61.8	0.7 0.4	18.8 29.0	3.3	163.0 174.2	23.3 20.0	270.9 289.3	(s) (s)	280.2 297.0	R (s)	R 280.2 R 297.0
2000	0.0	12.2	0.7	74.7	0.4	35.6	3.4	184.9	8.0	307.5	0.1	319.8	R (s) R (s) R 0.1	H 319.9
2005	0.0	7.7	0.7	86.0	0.7	30.6	2.8	189.4	11.8	322.0	0.1	330.0	R (s) R (s)	330.1 R 337.9
2006 2007	0.0	8.7	1.0 1.0	90.5	0.6 0.4	32.7 31.9	2.8	191.2	9.8 13.7	328.5	0.1 0.1	337.9	R (s)	n 337.9
2007	0.0 0.0	10.0 7.7	0.9	93.3 88.2	0.4	31.9	2.8 2.6	189.8 182.1	9.3	333.0 315.0	0.1	343.9 323.5	R (S)	R 343.9 R 323.6
2009	0.0	8.5	0.7	87.3	0.6	37.0	2.4 2.0	184.2	4.9	317.0	0.1	325.6	R (s)	R 325.6 R 317.5 R 302.5
2010	0.0	6.6	0.7	91.8	(s)	25.3		181.0	9.9	310.7	0.1	317.4	R (s)	H 317.5
2011 2012	0.0 0.0	5.3 4.8	0.7 0.6	90.0 89.7	(s) (s)	25.1	1.9 1.7	173.7 170.4	5.8 5.1	297.1	0.1 0.1	302.5 297.9	R (s) R (s)	n 302.5 B 207.0
2012	0.0	4.3	0.5	89.7	(s)	25.5 27.2	1.7	170.4	3.8	293.0 295.8	0.1	300.2	R (s)	R 297.9 R 300.2
2014	0.0	4.0	0.5	92.4	(s) (s)	26.8	1.8	176.7	0.7	299.0	0.1	303.1	R (s)	H 303 1
2015 2016	0.0	5.0	0.5	83.4	(s)	27.8	1.9	178.5	1.6	293.7	0.1	298.8	R (s) R (s)	R 298.8 R 300.2
2016	0.0 0.0	5.4 5.7	0.5 0.5	79.6 82.0	0.1 0.3	28.8 30.8	1.8 1.7	183.9 187.2	0.0 0.0	294.7 302.5	0.1 0.1	300.2 308.3	R (s)	R 308.4
2018	0.0	6.9	0.6	85.9	0.1	34.2	1.6	187.7	0.0	310.2	0.1	317.2	R (s)	n 317 2
2019	0.0	6.2	0.5	82.9	0.2	34.6	1.5	183.5	2.2	305.5	0.1	311.8	_0.1	311.9 R 279.0
2020	0.0	7.5	0.4	86.2 B oc o	0.1	21.7	1.4	158.0	3.6	271.4 B 202.6	0.1	279.0 B 202.1	0.1 R (s) R (s)	n 279.0 B 202.1
2021 2022	0.0 0.0	8.4 9.5	0.4 0.4	R 86.8 85.2	0.1 0.2	25.5 28.0	1.5 1.5	171.5 167.1	0.7 0.8	R 293.6 296.0	0.1 0.1	R 302.1 305.5	(s)	R 302.1 305.6
	0.0	0.0	0.4	00.2		20.0	3		0.0	200.0	J.1		(3)	200.0

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>-- =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Oregon

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil b	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousand	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	0	1	(s)	0	3	3	0	12,389		0	NA	NA	0	
1965 1970	0	(s)	(s) (s) (s) 29 110	0	1 18	1 19	0	16,447 29,836		0	NA NA	NA NA	0	
1975	0	(s) (s)	29	ŏ	0	29 110	2	34,522 30,194		Ö	NA	NA	(s)	
1980 1985	485 418	(s) 0	3	0	0	3	5,395 6,911	40.752		0	NA 0	NA 0	5,096	
1990 1995	850 977	7 20	56 12	0	0	56 12	6,074	41,240 40,764	==	0	0	1 0	852 828	
2000	2.241	69	105 93	0	0	105 93	0	38,116		0	0	67	153 76	
2005 2006	2,103	69 88 75 102	93 11	0	0	93 11	0	30,948 37,850		0	0	734 931	76 -14	
2007	1,449 2,577	102	9	Ŏ	ŏ	9	ŏ	33,587		Ö	Ŏ	1.247	1.234	
2008 2009	2,382 1,854	117 109	21 6	0	0	21 6	0	33,805 33,034		0	0	2,575 3,470	324 289	
2010	2,417	109 60	6	Ö	0	6	Ö	30,542		Ö	Ő	3,920	219	
2011 2012	1,985 1,583	81	12 12	0	0	12 12	0	42,315 39,410		0 26	(s) 6	4,775 6,343	284 466	
2013 2014	2,183 1,853	102 90	10 18	0	0	10 18	0	33,098 35,262		165 183	20 24	7,456 7,555	59 155	
2015	1,401	114	11	0	0	11	Ö	31,254		179	24	6,632	2,087	
2016 2017	1,125 1,031	107 104	8 18	0	0	8 18	0	34,549 38,294		184 174	41 194	7,157 6,227	827 1,025	
2018 2019	898 1,499	123 144	9	ŏ	ŏ	9	ŏ	35,443 30,322		176	572 676	7,447 6,569	434	
2019 2020	1,499 985	144 131	14	0	0	14 4	0	30,322 31,921		185 192	676 1,078	6,569 8,777	0	
2021	985 0 0	148	(s) 3	0	0	(s)	0	27,660		183 179	1,461	9,376	0	
2022	U	132	3	U	U	3	Frillion Btu	31,304		179	1,608	8,149	0	
1960	0.0	0.7	(c)	0.0	(e)	(s)	0.0	R 42.3	0.3	0.0	NA	NA	0.0	R 42 2
1965	0.0 0.0	0.1	(s) (s)	0.0 0.0	(s) (s)	(s)	0.0	H 56.1	0.3	0.0	NA	NA	0.0 0.0	R 43.3 R 56.5
1970 1975	0.0 0.0	1.1	(s) 0.2 0.6	0.0 0.0	0.1 0.0	0.1 0.2	0.0 (s)	R 101.8 R 117.8	0.5	0.0 0.0	NA NA	NA NA	0.0	H 103 /
1980	7.9 6.9	(s) 0.3	0.6	0.0	0.0	0.6	58.8	R 103.0 R 139.0	(s) 1.7	0.0	NA	NA	(s) 0.0	R 118.0 R 172.4
1985 1990	6.9 14.2 17.4	0.0 7.6	(s) 0.3 0.1	0.0 0.0	0.0 0.0	(s) 0.3	73.4 64.3	R 139.0 R 140.7	0.0 7.2	0.0 0.0	0.0 0.0	0.0 (s)	17.4 2.9	R 236.8 R 237.2
1990 1995 2000	17.4	19.7 70.7	0.1 0.6	0.0	0.0 0.0	0.1 0.6	0.0	R 140.7 R 139.1 R 130.1	7.1 6.2	0.0	0.0 0.0	(s) 0.0 R 0.2	2.9 2.8	R 237.2 R 186.2 R 246.9
2005	38.7 35.4 24.2	89.8 77.0	0.6 0.5 0.1	0.0	0.0	0.5	0.0	R 105.6 R 129.1	7.1	0.0	0.0	R 2.5	0.3	R 241.2 R 241.0
2006 2007	24.2	77.0 104.9	0.1 0.1	0.0 0.0	0.0 0.0	0.1 0.1	0.0 0.0	H 129.1	7.4 6.7	0.0 0.0	0.0	R 2.5 R 3.2 R 4.3 R 8.8	0.5 0.3 (s) 4.2	H 241.0 R 277.8
2008	43.1 39.7	119.0	0.1	0.0	0.0	0.1	0.0	R 114.6 R 115.3	4.5	0.0	0.0	R 8.8	1.1	R 277.8 R 288.6
2009 2010	31.2 40.7 33.3	111.1 111.4	(s) (s) 0.1	0.0 0.0	0.0 0.0	(s) (s)	0.0 0.0	H 112.7 R 104 2	5.2 5.4	0.0 0.0	0.0 0.0	H 11 8	1.0 0.7	R 273.0 R 275.9
2011	33.3	61.3	0.1	0.0	0.0	0.1	0.0	R 144.4 R 134.5 R 112.9	4.9	0.0	_ (s)	R 13.4 R 16.3	1.0	H 261 3
2012 2013	26.5 36.9	83.2 104.6	0.1 0.1	0.0 0.0	0.0 0.0	0.1 0.1	0.0 0.0	R 134.5	5.3 6.5	R 0.1 R 0.6	(s) R (s) R 0.1	R 21.6 R 25.4 R 25.8	1.6 0.2	R 272.8 R 287.3
2014	31.7	92.8	0.1	0.0	0.0	0.1	0.0	R 120.3 R 106.6	7.7	R 0.6 R 0.6	R 0.1 R 0.1	R 25.8 R 22.6	0.5	H 279 6
2015 2016	24.2 19.4	118.3 111.7	0.1 (s) 0.1	0.0 0.0	0.0 0.0	0.1 (s)	0.0 0.0	R 117 9	6.8 6.9	R 0.6	R 0.1	R 24 4	0.5 7.1 2.8	R 286.5 R 284.0
2017 2018	17.8	109.7 130.0	0.1	0.0 0.0	0.0 0.0	0.1	0.0 0.0	R 130.7 R 120.9	6.2 6.9	R 0.6 R 0.6	R 0.1 R 0.7 R 2.0 R 2.3 R 3.7	R 21.2 R 25.4 R 22.4	3.5 1.5	R 290.4 R 302.8
2019	15.5 26.2	151.4	(s) 0.1	0.0	0.0	(s) 0.1	0.0	n 103.5	6.6	R06	R 2.3	R 22.4	0.0	H 313.1
2020	17.0 0.0	137.2 155.6	(s) (s) (s)	0.0 0.0	0.0	(s) (s)	0.0 0.0	H 108 9	6.5 7.0	R 0.7 R 0.6	R 3.7 R 5.0	R 29.9 R 32.0 27.8	0.0	H 303 9
2021 2022	0.0	140.1	(s)	0.0	0.0 0.0	(S) (S)	0.0	R 94.4 106.8	7.0 6.6	0.6	R 5.0 5.5	27.8	0.0 0.0	R 294.5 287.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Pennsylvania

						Petroleum				]				
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				Mi	illion kilowatthour	s	Thousan	d barrels
1960	60,646	522	46,257	2,334	1,036	80,104	42,958	24,318	197,008	230	1,826	0	NA	NA
1965	68.911	629	54.459	3.030	3.406	85.723	43,238	29,391	219,246	313	1.329	0	NA NA	NA NA
1970	68,574	772	63,489	4,754	9,083	101,718	60,436	29,116	268,595	465	1,366	0	NA	NA
1971 1972	65,816 67,167	802 829	63,171 69,280	4,895 5,577	8,552 8,669	107,336 116,142	60,724 60,152	29,540 31,373	274,219 291,193	445 288	779	0	NA NA	NA NA
1972	72,471	783	72,139	5,808	9,225	114,856	59,253	30,781	291,193	361	1,533 1,372	0	NA NA	NA NA
1974	67,601	716	72,016	5,687	8,954	108,823	56,643	30,455	282,578	6,998	1,393	ŏ	NA	NA
1975	67,043	654	68,017	6,077	8,548	108,765	41,631	28,111	261,149	15,869	1,576	0	NA	NA
1976 1977	67,651 63,539	714 668	75,108 78,031	6,399 6,857	8,436 8,498	117,709 120,263	50,302 59,962	29,815 29,870	287,768 303,482	16,425 17,821	1,416 1,205	0	NA NA	NA NA
1978	63,179	674	75,378	7,345	8,958	121,978	58,363	31,426	303,447	22,329	760	0	NA NA	NA
1979	70,374	741	76,720	8,511	9,890	116,157	46,461	30,731	288,469	18,796	1,222	0	NA	NA
1980	65,911	776	68,602 59,885	7,255	10,148	107,925	35,099 29,878	27,507	256,535	12,091 14,276	734	0	NA	NA NA
1981 1982	60,535 52,472	785 695	59,885 52,945	7,635 7,170	9,019 8,625	104,151 102,134	29,878	22,016 22,964	232,585 214,706	16,472	660 1,829	0	0	NA NA
1983	53,846	644	52,872	7,210	9 152	102,680	24.104	24,746	220.764	14,718	1.170	ŏ	ŏ	NA
1984	58,648	677	58,961	8,778	10,465	102,159	22,962	26,715	230,040	21,564	1,447	0	0	NA
1985 1986	56,702 53,103	626 610	57,887	7,577 8,430	10,126 9,915	101,979 104,103	17,799 23,616	25,190 26,705	220,558 230,397	26,232 39,820	972	0	0	NA NA
1987	55,413	636	57,627 62,774	8,398	10,530	104,103	23,878	28,492	240,699	34,982	1,453 1,132	0	0	NA NA
1988	58,799	669	63,581	6,105	11,705	110,729	22,033	30,022	244,174	37,862	705	ŏ	Ŏ	NA
1989	60,497	689	64,822	6,967	9,661	108,915	23,239	30,738	244,341	39,166	1,440	0	0	NA
1990 1991	61,019 59,106	656 645	59,661 57,530	6,313 7,585	12,042 11,355	107,467 107,081	18,762 16,715	31,040 28,121	235,286 228,386	57,787 57,476	2,869 1,920	0	0	NA NA
1992	61,879	692	59,492	9,176	10,932	107,406	15,617	29,579	232,202	60,133	2,578	0	0	NA NA
1993	62,594	706	62,738	5,759	11,787	109,970	18,944	27,675	236,874	59,331	2,376	Ö	217	NA
1994	61,129	713	65,486	5,634	11,748	109,532	19,562	30,214 32,071	242,176	67,207	2,750	0	556	NA
1995 1996	62,969 65,691	736 746	61,656 61,297	5,509 6,080	12,313 11,831	112,282 113,639	13,715 12,959	32,071 29,857	237,546 235,662	66,462 68,672	2,030 3,012	0	1,730 1,298	NA NA
1997	66,667	746	59,438	5 283	14,819	114,779	11,495	32,502	238,317	67,655	2.249	0	1,437	NA
1998	62,342	644	57,603	5,452	16,731	116,867	13,933	33,278	243.864	61,149	2.381	0	330	NA
1999 2000	59,822	689	62,519 68,564	5,677	15,943 19,009	117,420	11,872 12,071	30,308 30,372	243,739 255,164	71,127 73,771	1,947 2,290	0	283 319	NA NA
2000	63,516 60,161	703 635	69,446	7,115 6,573	18,877	118,034 120,458	9,721	34,326	259,400	73,771	1,650	10 11	410	15
2002	60,583	676	69,282	6,974	17,006	122,851	7,834	31,272	255,219	76,089	2,211	58	137	23
2003	61,992	690	68,326	11,231	17,473	122,575	11,456	32,814	263,875	74,361	3.346	112	163	19
2004 2005	62,797 65,044	696 692	71,869 71,764	11,037 12,209	16,381 16,826	124,468 123,808	11,859 14,200	34,096 34,745	269,710 273,552	77,459 76,289	3,155 2,232	306 284	2,148 1,367	38 129
2005	66.155	660	71,704	13.033	16,465	122,702	7,131	33.463	264.041	75,298	2.844	361	3.015	370
2007	65,693	752	70,216	13,307	15,503	123,970	6,623	31,760	261,379	77,376	2,236	470	4,047	502
2008	63,333	750	76,679	15,667	14,435	120,652	5,523	28,904	261,861	78,658	2,549	729 1,075	8,642	431 457 369
2009 2010	55,063 58,570	810 879	58,339 61,570	15,461 _ 14,950	12,476 12,268	122,112 122,653	4,168 1,976	28,254 26,446	240,810	77,328 77,828	2,683 2,332	1,075 1,854	10,726 11,469	45/
2010	54,790	966	62,870	H 15 444	12,085	119,726	1,415	23,862	239,863 R 235,403 R 225,742	76,147	3,217	1,794	11,362	1.257
2012	48,606	966 1,038	61,899	H 12 020	11,977	118,610	1 529	19,647	R 225,742	75,174	2.242	2.129	11,519	1,257 1,238
2013 2014	50,019 46,481	1,122 1,244	63,647 68,514	R 12,897	12,349 12,235	119,409 117,470	1,251 887	21,709	H 231,263	78,714 78,715	2,525 2,641	3,352 3,565	11,770	1,273 1,370
2014	39,033	1,244	65,441	R 13,694 R 13,077	12,235	117,470	428	22,763 23,604	R 231,263 R 235,563 R 231,795	78,715 80,517	2,604	3,353	11,401 11,237	1,370
2016	33,385	1.301	56,753	H 12 933	12,409	117,887	563	H 22 977	R 223,522 R 226,065	82,924	2.375	3,476	11.467	1 426
2017	30,420	1,350	57,758	H 12.890	12,811	118,831	292	H 23 482	R 226,065	83,200	3,123	3,591	11,754	1,534
2018 2019	29,740 25,494	1,460 1,618	63,960 60,277	R 14,036 R 14,570	13,158 13,720	115,478 115,994	288 369	R 22,193 R 18,628	R 229,113 R 223,558	83,477 83,230	4,262 3,503	3,567 3,250	11,627 11,708	1,279 1,206
2019	25,494 17,788	1,618	53,824	R 13,494	7,959	99,001	228	R 13,921	R 188,427	76,521	3,503 2,672	3,250 3,748	9,977	1,206
2021	22,036	1,801	R 59,861	H 13,875	9,293	107,361	323	H 15,363	R 206,076	75,903	3,135	3,455	10,928	R 1,197
2022	20,639	1,869	61,478	31,359	9,994	105,560	351	16,199	224,940	76,166	2,653	3,572	10,781	1,230

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Pennsylvania (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
						Petroleum					1	as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
960	1,530.5	540.1	269.4	8.9	5.7	420.8	270.1	145.9	1,120.9	3,191.5	540.1	269.4	420.8
965	1.751.3	652.9	317 2	11.6	19.2	450.3	271.8	175.8	1 245 9	3.650.1	652.9	317.2	450.3
970	1,699.0	797.9	369.8 368.0	17.8	51.4	534.3	380.0	175.7	1,528.9 1,558.2	4,025.8	797.9	369.8	534.3
971 972	1,619.6	828.6	368.0	18.3 20.7	48.4	563.8	381.8	177.9	1,558.2	4,006.4	828.6	368.0	563.8
972	1,662.3 1,798.6	856.3 811.5	403.6 420.2	20.7	49.0 52.2	610.1 603.3	378.2 372.5	188.9 185.8	1,650.5 1,655.5 1,602.6	4,169.1 4,265.6	856.3 811.5	403.6 420.2	610.1 603.3
974	1,661.4	732.7	419.5	21.0	50.7	571.6	356.1	183.8	1.602.6	3,996.7	732.7	419.5	571.6
975	1,646.7	670.1	396.2 437.5	22.3	48.4	571.3	261.7	169.4	1,469.3 1,623.3	3,786.1	670.1	396.2 437.5	571.3
976	1,682.8	731.4	437.5	23.4	47.7	618.3	316.3	180.0	1,623.3	4,037.4	731.4	437.5	618.3
977 978	1,578.0 1,572.5	682.4 688.3	454.5 439.1	24.9 26.4	48.1 50.7	631.7	377.0 366.9	180.8 189.8	1,717.0	3,977.3 3,974.4	682.4 688.3	454.5 439.1	631.7 640.7
979	1,756.3	756.1	446.9	30.6	56.0	640.7 610.2	292.1	185.6	1,713.6 1,621.4	4,133.7	756.1	439.1 446.9	610.2
980	1 636 1	789.6	399.6	26.2	57.4	566.9	220.7	165.6	1,436.4	3,862.0	792.8	399.6	566.9
981	1,495.9	791.2	348.8	27.4	51.0	547.1	187.8	135.5	1,436.4 1,297.7	3,584.8	802.0	348.8	547.1
982	1,291.5	708.3	308.4	25.6	48.8	536.5	131.2	141.1	1,191.6	3,191.4	714.1	308.4	536.5
983 984	1,337.5 1,462.3	658.7 699.6	308.0 343.4	25.8 31.3	51.8 59.2	539.4 536.6	151.5 144.4	150.7 161.1	1,227.1 1,276.0	3,223.3 3,438.0	662.6 699.7	308.0 343.4	539.4 536.6
985	1,402.3	646.7	337.2	27.2	57.3	535.0 535.7	111.9	153.9	1,276.0	3,278.9	646 9	337.2	535.7
985 986	1,318.4	631.7	335.7	30.2	56.1	535.7 546.9	148.5	164.2	1,223.1 1,281.5 1,340.5	3,231.6	646.9 631.9	335.7	546.9
987	1.381.1	658.8	365.7	30.4	59.6	560.1	150.1	174.6	1,340.5	3.380.4	659.1	<i>365.7</i>	560.1
988	1,466.2 1,490.9	692.5	370.4	22.4	66.2	581.7	138.5	182.4	1,361.5 1,363.2	3,520.2 3,568.8	692.7	370.4	581.7
989 990	1,490.9 1,469.7	714.7 680.5	377.6 347.5	25.6 23.0	54.6 68.2	572.1 564.5	146.1 118.0	187.1 189.9	1,363.2 1,311.1	3,568.8 3,461.3	715.0 680.7	377.6 347.5	572.1 564.5
991	1,425.2	666.9	335.1	27.5	64.3	562.5	105.1	172.2	1,266.7	3,358.9	667.2	335.1	562.5
992	1.473.2	717.2	346.5	33.2	61.9	564.2	98.2	179.8	1.283.8	3,474.1	717.3	346.5	564.2
993	1,487.0	731.7	365.5	21.2	66.7	573.0 569.2	119.1	168.9	1,283.8 1,314.3 1,345.8	3,533.0	731.8	365.5	573.7
994	1,439.6	738.9	381.1	21.0	66.5	569.2	123.0	185.1	1,345.8	3,524.4	739.1	381.1	571.1
995 996	1,484.1 1,543.7	761.4 770.9	358.8 356.7	20.5 22.6	69.8 67.1	578.3 587.7	86.2 81.5	196.3 182.4	1,310.0	3,555.6 3,612.5	761.5 771.2	358.8 356.7	584.3 592.2
997	1,569.6	770.9	345.9	19.8	84.0	592.4	72.3	198.0	1,297.9	3,612.8	730.8	345.9	597.4
998	1,466.0	667.2	335.2	20.5	94.9	606.9	87.6	203.2	1,343.6 1,310.0 1,297.9 1,312.5 1,348.3 1,343.3	3,481.5	667.2	335.2	608.1
998 999	1,466.0 1,415.0	713.4	335.2 363.8	21.3	90.4	606.9 609.8	74.6	203.2 183.3	1,343.3	3,481.5 3,471.7	667.2 713.6	335.2 363.8	610.8
000	1,508.1	727.2	399.0	26.6	107.8	612.8	75.9	185.6 209.8	1,407.6 1,431.4 1,403.6	3,642.9	727.5	399.0	613.9 626.5
2001 2002	1,392.2 1,457.3	669.0 700.5	404.1 403.1	24.3 25.9	107.0 96.4	625.1 638.2	61.1 49.3	209.8 190.6	1,431.4	3,492.5 3,561.4	669.1 700.6	404.1 403.1	626.5 638.7
2003	1,457.3	717.5	397.6	41.1	90.4	636.5	72.0	200.7	1,403.0	3,626.4	717.6	397.6	637.0
2004	1,462.0 1,474.3	723.2	418.1	40.4	99.1 92.9	636.5 639.3	74.6	210.0	1,475.2	3,672.7	723.3	418.1	646.7
005	1.490.8	719.1	417.5	44.2	95.4	638.1	89.3	214.1	1,446.9 1,475.2 1,498.5 1,430.3 1,402.8 1,380.3 1,246.1	3.708.5	723.3 719.3	417.5	642.8
006	1,499.3	684.7	413.5	47.0	93.4	625.8	44.8	205.9	1,430.3	3,614.3	684.8	413.5	636.2
2007 2008	1,491.9	780.1 778.3	406.1	48.0 56.2	87.9 81.8	623.4 586.1	41.6 34.7	195.7 178.3	1,402.8	3,674.7	780.2 778.4	406.1 443.2	637.5 616.1
2009	1,421.1 1,223.9	839.5	443.2 334.8	55.2	70.7	586.1 584.4	26.2	174.7	1,300.3	3,579.7 3,309.5	839.7	337.0	621.5
010	1.310.7	909.3	354.0	57.4 R 59.3	69.6	581.7	12.4	163.7	1,238.8 R 1,209.6 R 1,158.9	3 458 7	909.3	355.6	621.5
011	1,213.0	1,000.5	358.8	R 59.3	68.5	566.8	8.9	147.3	R 1,209.6	R 3,423.1	1,000.5	362.8	606.2
012	1,093.2	1,079.5	352.6	R 46.4	67.9 70.0	560.5	9.6	122.0 133.2	n 1,158.9	R 3,331.6	1,079.5	357.0	600.4 604.2
2013	1,126.1 1,039.2	1,175.5 1,304.1	359.2 387.5	H 49.5	70.0 69.4	563.4 554.7	7.9 5.6	140.2	R 1,183.1 R 1,209.9	R 3,484.7 R 3,553.2	1,175.5 1,304.1	366.8 394.8	594.3
2015	878.8	1.313.4	369.5	R 49.5 R 52.6 R 50.2 R 49.6 R 49.5	69.3	552.8	2.7	145.8	R 1.190.3	H 3 382 5	1 313 4	377.1	591.8
2016	734.8	1,354.3 1,404.2	317.4	R 49.6	70.4	556.1 559.6	3.5	145.8 R 144.4	R 1,190.3 R 1,141.4 R 1,154.8	R 3,230.6 R 3,228.5	1,354.3 1,404.3	326.7	591.8 595.9
2017	669.5	1,404.2	323.7	H 49.5	72.6	559.6	1.8	R 147.5	H 1,154.8	H 3,228.5	1,404.3	332.5	600.5
2018 2019	644.1	1,515.9	360.1 339.1	R 53.9 R 55.9	74.6 77.8	543.1 545.2	1.8	R 139.5 R 117.0	R 1,173.0 R 1,137.5	R 3,332.9 R 3,385.7	1,516.0 1,679.5	368.3 347.1	583.6 586.0
2019	568.8 374.3	1,679.5 R 1,783.8	301.5	H 51 8	77.8 45.1	545.2 465.5	2.3 1.4	H 87 3	11,137.5 R 952.7	R 3,110.7	1,679.5 R 1,783.8	347.1 309.8	586.0 500.2
2021	485.2	R 1,868.1	R 341.4	R 53.3	52.7	504.2	2.0	R 96.2	R 1,046.0	R 3,399.3	R 1,868.1	R 345.0	542.2
022	435.5	1,936.6	350.8	101.9	56.7	495.4	2.2	101.6	1,104.6	3,476.7	1,937.9	354.4	533.0

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Pennsylvania (continued) (trillion Btu)

								ergy							i
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	2.7	R 6.2 R 4.5	46.5	NA	NA	NA	NA	46.5	0.0	NA	NA	R 52.7 R 51.9	R -54.8 R -50.6 R -72.4 R -144.4 R -137.3 R -216.7 R -225.6 R -195.2 R -270.9 R -282.7 R -222.9 R -163.8 R -247.7	0.0	R 3,192.0 R 3,655.1 R 4,011.2 R 3,943.8
1965 1970	3.7 5.1	R 4.7	47.4 53.2	NA NA	NA NA	NA NA	NA NA	47.4 53.2	0.0 0.0	NA NA	NA NA	R 57.9	R -77.6	0.0 0.0	R 4.011.2
1971	4.8	R 4.7 R 2.7 R 5.2	53.2 52.4	NA	NA	NA	NA	52.4	0.0	NA	NA	R 57.9 R 55.1	R -122.4	0.0	R 3,943.8
1972	3.1 3.9	R 4.7	54.2	NA NA	NA NA	NA NA	NA NA	54.2 56.6	0.0 0.0	NA NA	NA NA	R 59.4 R 61.3	<sup>□</sup> -144.4 R -137.3	0.0 0.0	R 4,087.3
1973 1974	78.1	R 4.8	56.6 57.5	NA	NA	NA	NA	57.5	0.0	NA	NA NA	R 62.3	R -125.3	0.0	R 4,193.6 R 4,011.9 R 3,807.0 R 4,064.6 R 4,049.9
1975	174.8	R 5.4	57.5	NA	NA	NA	NA	57.5 66.5	0.0	NA	NA	R 62.8	R -216.7	0.0	R 3,807.0
1976 1977	181.4 191.9	R 4.8 R 4.1	66.5 71.7	NA NA	NA NA	NA NA	NA NA	66.5 71.7	0.0 0.0	NA NA	NA NA	R 71.3 R 75.9	R -225.6	0.0 0.0	R 4,064.6
1978	244.3	R 2.6	82.7	NA	NA NA	NA NA	NA	82.7	0.0	NA NA	NA	H g g g	R -270.9	0.0	R 4.033.0
1979	204.5	R 2.6 R 4.2	94.2	NA	NA	NA	NA	94.2	0.0	NA	NA NA	H 98.4	R -282.7	0.0	R 4,033.0 R 4,153.8 R 3,902.7 R 3,721.5 R 3,262.8
1980 1981	131.9 157.5	R 2.5 R 2.3	129.2 140.8	NA 0.0	NA NA	NA NA	NA 0.0	129.2 140.8	0.0 0.0	NA NA	NA NA	R 131.7 R 143.0	H -222.9	0.0 0.0	H 3,902.7
1982	182.4	R 6.2	130.5	0.0	NA NA	NA NA	0.0	130.5	0.0	NA NA	NA NA	H 136 7	R -247 7	0.0	R 3 262 8
1983	160.5	H40	154.8	0.0	NA	NA	0.0	154.8	0.0	NA	0.0	R 158 8	R -247.7 R -273.8 R -311.8 R -353.1 R -473.5 R -373.4 R -381.6	0.0	R 3,268.9 R 3,501.8
1984	233.8	R 4.9 R 3.3	136.9	0.0	NA	NA	0.0	136.9	0.0	0.0	0.0	n 141 8	H -311.8	0.0	
1985 1986	278.6 421.3	R 5.0	138.1 102.0	0.0 0.0	NA NA	NA NA	0.0 0.0	138.1 102.0	0.0 0.0	0.0 0.0	0.0 0.0	R 141.4 R 107.0	"-353.1 R <sub>-473.5</sub>	0.0 0.0	R 3 286 4
1987	365.3	H 3.9	96.2	0.0	NA	NA	0.0	96.2	0.0	0.0	0.0	H 100.1	R -373.4	0.0	R 3,472.3
1988	401.4	R 2.4	100.9	0.0	NA	NA	0.0	100.9	0.0	0.0	0.0	H 103.3	R -381.6	0.0	R 3,643.3
1989 1990	414.5 611.5	R 4.9 R 9.8	82.5 61.4	0.0 0.0	NA NA	NA NA	0.0 0.0	82.5 61.4	0.2 0.2	0.4 0.4	0.0 0.0	R 88.0 R 71.8	R -419.0 R -511.7 R -463.4 R -521.3	0.0 0.0	R 3,345.8 R 3,286.4 R 3,472.3 R 3,643.3 R 3,652.3 R 3,632.9 R 3,574.8 R 3,672.2
1991	602.6	R 6.6	69.5	0.0	NA NA	NA NA	0.0	69.5	0.2	0.4	0.0	R 76.8	R -463.4	0.0	R 3.574.8
1992	629.6	Raa	80.2	0.0	NA	NA	0.0	80.2	0.3	0.5 0.5	0.0	R 89 7	R -521.3	0.0	R 3,672.2
1993 1994	623.2 702.4	R 8.1 R 9.4	79.5 83.0	0.8 1.9	NA NA	NA NA	0.0 0.0	80.3 84.9	0.3 0.3	0.5 0.5	0.0 0.0	R 89.1 R 95.1	R -501.6 R -506.5 R -481.2 R -540.7 R -548.9 R -499.0 R -550.6 R -580.6	0.0 0.5	R 3,743.7 R 3,815.8
1994	698.3	R 6.9	91.5	6.0	NA NA	NA NA	0.0	97.5	0.3	0.5	0.0	R 105.3	R -481 2	0.5	R 3 878 0
1996	721.3	R 10.3 R 7.7	99.0	4.5	NA	NA	0.0	103.6	0.4	0.5 0.5 0.5 0.5	0.0	H 114 7	R -540.7	0.7	R 3,878.0 R 3,908.5
1997	710.0	H 7.7 R 8.1	90.8	5.0	NA	NA	0.0	95.7	0.4	0.5	0.0 0.0	R 104.3 R 95.5	H -548.9	0.4	H 3 878 6
1998 1999	641.5 743.3	'' 8.1 R 6 6	85.3 88.4	1.1 1.0	NA NA	NA NA	0.0 0.0	86.4	0.5	0.5 0.5	0.0	R 95.5	R -550 6	-0.6 -0.1	R 3,718.9
2000	769.4	R 6.6 R 7.8	88.4 89.2	1.1	NA	NA	0.0	89.3 90.3	0.5 0.5	0.5 0.4	R (s)	R 99.1	R -580.6	0.0	R 3,761.3 R 3,930.8
2001	770.0	R 5.6	77.6	1.4	0.1	NA	(s)	79.1 73.1	0.5 0.6	0.4	R (s)	R 85.7	R -507.1	0.0	H 3.841.1
2002	794.5 775.0	R 7.5 R 11.4	72.5	0.5 0.6	0.1 0.1	NA NA	(s) (s)	73.1 74.4	0.6 0.8	0.4 0.4	0.0 R (s) R (s) R 0.2 R 0.4 R 1.0	R 81.9 R 87.4	n -537.7 B 544.5	-0.3	R 3,899.7
2003 2004	807.7	R 10 8	73.8 74.4	7.5	0.1	NA NA	(S)	82.1	0.8	0.4	R 1.0	R 95.2	R -583.3	-0.3 -0.6	R 3,944.0 R 3,991.7
2005	796.2	R 7 6	77.6	4.7	0.7	NA	(s)	83.0	1.0	0.4		R 93 0	R -573.6	-1.0	R 4,023.2
2006 2007	785.7 811.6	R 9.7 R 7.6	73.8 76.6	10.5 14.0	2.0 2.7	NA NA	(s) (s)	86.2 93.3	1.1 1.3	0.5 0.5	R 1.2 R 1.6	R 98.8 R 104.4	R-590.6 R-597.7 R-544.5 R-583.3 R-573.6 R-604.7 R-640.4 R-602.7	-0.3 0.2	R 4,023.2 R 3,893.8 R 3,950.5 R 3,927.0
2007	822.1	R 8.7	80.5	30.0	2.7	NA NA	(S)	112.8	1.5	0.5	H 2.5	R 126.1	R -602 7	1.8	R 3,950.5
2009 2010	8.808	Rag	87.1 99.6	37.1	2.4 2.0	NA	(s) (s) 5.4	126.7 146.7	1.8 2.0	0.7 R 0.9	R 2.5 R 3.7 R 6.3	B 1/1 0	R -651.6	0.6 1.4	R 3,609.2 R 3,736.7 R 3,730.3 R 3,626.0
2010	813.5	R 8.0	99.6	39.8	2.0	NA	5.4	146.7	2.0	H 0.9	H 6.3	R 163.9	H -700.9	1.4	H 3,736.7
2011 2012	796.8 787.8	R 11.0 R 7.6	111.3 105.8	39.4 40.0	6.7 6.6	0.0 0.0	4.7 4.7	162.1 157.1	2.2	"1.3 R 1.5	" 6.1 R 7 3	R 182.7 R 175.7	11-6/3.8 R -673.6	1.5 4.6	R 3 626 0
2013	822.5	R 8.6	120.0	40.8	6.8	0.0	5.7	173.4	2.2 2.2 2.2 2.2 2.2	R 1.3 R 1.5 R 1.7 R 1.8 R 1.8 R 2.0 R 2.2 R 2.4	R 6.1 R 7.3 R 11.4 R 12.2 R 11.4 R 11.9 R 12.3 R 12.2 R 11.1 H 12.8	H 197 4	R .657.6 R .700.9 R .673.8 R .673.6 R .677.3 R .613.1 R .555.4 R .555.9 R .558.2 R .510.4 R .655.9 R .700.5	3.8	R 3,831.0 R 3,958.0
2014	823.3	R 9.0	115.4	39.6	7.3	0.0	5.3	167.6	2.2	R 1.8	R 12.2	H 192.8	R -613.1	1.9	R 3,958.0
2015 2016	842.0 867.3	R 8.9 R 8.1	R 122.8	39.0 39.8	7.0 7.6	0.0 0.0	5.1 5.6	R 173.9 R 170.6	2.2	n 1.8	n 11.4 R 11.0	R 198.3 R 194.7	n -551.4 R -555.0	1.8 1.1	R 3,873.3 R 3,737.7
2016	870.2	R 10.7	R 117.6 R 117.4	39.6 40.9	8.2	0.0	5.2	H 171.7	2.2 2.2 2.2 2.2 2.2	R 2.2	R 12.3	H 199.0	R -558.2	0.1	R 3,739.7
2018	872.7	R 14 5	121.0	40.5	6.9	0.0	5.0	H 172 /	2.2	R 2.4	R 12.2	H 204.6	R -510.4	0.2	R 3,739.7 R 3,900.1
2019 2020	869.1	R 12.0 R 9.1	R 113.3 R 100.5	40.8 34.7	6.5 _ 5.8	0.0	5.7	R 166.3 R 146.1	2.2 2.2	R 2.7 R 3.2	H 11.1	<sup>R</sup> 194.2 <sup>R</sup> 173.4	H -655.9	0.0	R 3,793.1 R 3,382.9
2020	799.3 R 791.6	R 10.7	R 97.5	34.7	R 6.4	0.0 0.0	5.1 6.3	R 148.3	2.2	R 3.8	R 11.8	R 176.7	R -756.6	0.0 0.0	R 3,611.0
2021 2022	794.3	9.1	106.7	37.5	6.6	0.0	6.3	157.1	2.2 2.2	4.3	12.2	184.8	-719.0	0.0	3,736.9

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Pennsylvania

						Petroleum					Bior	nass						
	Cast	Natural	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power g,h					Electricity			
	Coal	gas <sup>a</sup>	iuei oii º	ngL °	iuei	gasoline °	iuei oii	Other ·	Total	•	Wood	Losses			Electricity		Electrical system	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	<b>S</b>			Million kilowatt- hours	and waste <sup>h,i</sup>	and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	energy losses <sup>n</sup>	Total h,m
1960	42,584	516	45,772	2,334	1,036	80,104	40,211	24,318	193,776	16					39,217			
1970	39,433	763	59,530	4,754	9,083	101,718	37,934	29,116	242,135	12					75,620			
1980 1990	23,445 15,854	773 641	66,364 57,522	7,255 6,313	10,148 12,042	107,925 107,467	17,872 12,112	27,191 30,035	236,754 225,492	1					99,744 114,751			
2000	11,250	682	65,971	7,115	19,009	118,034	7,327	30,346	247,802	0					133,845			
2005	10,580	611	70,491	12,209	16,826	123,808	7,141	34,211	264,687	0					148,273			
2006	10,219	559	70,597	13,033	16,465	122,702	6,181	33,284	262,262	0					146,150			
2007 2008	9,981 9,338	608 609	69,379 75,885	13,307 15.667	15,503 14,435	123,970 120,652	5,108 4.822	31,760 28,768	259,026 260,229	0					151,573 150,401			
2009	6,211	599	57,747	15,461	12,476	122,112	3,392	28,114	239,302	0					143,747			
2010	7,682	634	60,835	_ 14,950	12,268	122,653	1,568	26,446	238,720	0					148,964			
2011	7,388	659	62,199	R 15,444	12,085	119,726	1,184	23,862	R 234,502	0					148,757			
2012 2013	7,003 8,027	644 759	61,397 63,076	R 12,080 R 12,897	11,977 12,349	118,610 119,409	1,423 1,154	19,647 21,709	R 225,134 R 230,594	0					144,710 146,254			
2013	8,173	856	67,511	R 13,694	12,235	117,470	659	22,763	R 234,332	0					146,688			
2015	7,642	818		R 13,077	12,217	117,027	428	23,604	R 230,752	0					146,344			
2016	5,857	800	56,168	R 12,933	12,409	117,887	563	R 22,976	R 222,935	0					145,328			
2017 2018	6,036 6,237	824 922	57,240 62,608	R 12,890 R 14,036	12,811 13,158	118,831 115,478	292 279	R 23,482 R 22,193	R 225,546 R 227,752	0					142,991 148,977			
2019	6,237	946	59,899	R 14,036	13,720	115,476	362	R 18,628	R 223,173	0					145,580			
2020	4,165	889	53,657	R 13,494	7,959	99,001	220	R 13,921	R 188,251	0					139,721			
2021	5,767	<sup>R</sup> 949	R 59,621	R 13,875	9,293	107,361	319	R 15,363	R 205,832	0					143,340			
2022	5,891	985	60,924	31,359	9,994	105,560	327	16,199	224,363	0					145,045			
									Trillion									
1960	1,107.2	533.9	266.6	8.9	5.7	420.8	252.8	145.9	1,100.8	R <sub>0.1</sub>	46.5			NA	133.8	R 2,922.2	R 269.8	R 3,192.0
1970	1,018.8	788.2	346.8	17.8	51.4	534.3	238.5	175.7	1,364.4	R (s)	53.2			NA	258.0	R 3,482.6	R 528.5	R 4,011.2 R 3.902.7
1980 1990	609.4 415.0	789.9 666.7	386.6 335.1	26.2 23.0	57.4 68.2	566.9 564.5	112.4 76.1	163.7 183.9	1,313.1 1,250.8	(s) 0.0	129.2 52.5		NA 0.2	NA 0.4	340.3 391.5	3,178.7 2,777.0	R 724.0 R 855.9	R 3,632.9
2000	297.5	706.2	383.9	26.6	107.8	613.9	46.1	185.5	1,363.7	0.0	57.7			0.4	456.7	2.882.4	R 1,048.5	R 3,930.8
2005	265.9	635.7	410.1	44.2	95.4	642.8	44.9	211.0	1,448.4	0.0	52.6		1.0	0.4	505.9	2,910.6	R 1,112.5	R 4,023.2
2006	256.2	580.4	409.7	47.0	93.4	636.2	38.9	204.9	1,430.0	0.0	48.3		1.1	0.5	498.7	2,817.1	R 1,076.7	R 3,893.8
2007 2008	250.3 232.5	631.9 632.6	401.3 438.6	48.0 56.2	87.9 81.8	637.5 616.1	32.1 30.3	195.7 177.5	1,402.4 1,400.5	0.0	50.2 51.9		1.3 1.5	0.5 0.6	517.2 513.2		R 1,094.1 R 1,091.9	R 3,950.5 R 3,927.0
2009	152.9	623.0	333.6	55.2	70.7	621.5	21.3	177.5	1,276.3	0.0	58.5		1.8	0.7	490.5	R 2,603.5	R 1,005.4	R 3,608.9
2010	190.9	657.1	351.3	57.4	69.6	621.5	9.9	163.7	1,273.3	0.0	69.5		2.0	R <sub>0.9</sub>	508.3	R <sub>2,707.3</sub>	R 1,029.0	R 3,736.2
2011	184.6	685.5	358.9	R 59.3	68.5	606.2	7.4	147.3	R 1,247.6	0.0	82.6			R 1.2	507.6	R 2,716.0	R 1,011.4	R 3,727.5
2012	188.9	672.5	354.1	R 46.4 R 49.5	67.9	600.4	8.9	122.0	R 1,199.7	0.0	78.2			R 1.4 R 1.5	493.7	R 2,641.4	R 982.3 R 985.5	R 3,623.7 R 3,831.9
2013 2014	220.3 224.9	797.4 899.8	363.5 389.1	R 52.6	70.0 69.4	604.2 594.3	7.3 4.1	133.2 140.2	R 1,227.7 R 1,249.7	0.0	92.6 88.5			R 1.6	499.0 500.5	R 2,846.4 R 2,972.4	R 985.7	R 3,958.0
2015	209.6	857.2	371.1	R 50.2	69.3	591.8	2.7	145.8	R 1,230.9	0.0	R 95.5		2.2	R 1.7	499.3	R 2,901.4	R 972.4	R 3,873.8
2016	160.8	834.2	323.4	R 49.6	70.4	595.9	3.5	R 144.4	R 1,187.2	0.0	90.3	5.6	2.2	R 1.8	495.9	R 2,777.8	R 961.6	R 3,739.4
2017	167.8	859.3	329.5	R 49.5	72.6	600.5	1.8	R 147.5	R 1,201.4	0.0	R 90.0			R 2.0	487.9	R 2,815.8	R 924.4	R 3,740.2
2018 2019	176.1 170.7	958.2 982.7	360.6 345.0	R 53.9 R 55.9	74.6 77.8	583.6 586.0	1.8 2.3	R 139.5 R 117.0	R 1,213.9 R 1,184.0	0.0	R 94.2 R 89.3	5.0 5.7		R 2.2 R 2.5	508.3 496.7	R 2,960.1 2.933.8	<sup>R</sup> 941.4 <sup>R</sup> 860.8	R 3,901.5 R 3,794.6
2019	170.7	R 924.6	308.8	R 51.8	45.1	500.2	1.4	R 87.3	R 994.6	0.0	R 78.4	5.7	2.2	R 2.8	496.7 476.7	R 2,602.6	R 782.8	R 3,385.4
2021	164.8	R 986.0	R 343.7	R 53.3	52.7	542.2	2.0	R 96.2	R 1,090.0	0.0	R 77.6			R 3.0	489.1	R 2,818.9	R 793.0	R 3,611.9
2022	167.8	1,022.5		101.9	56.7	533.0	2.1	101.6	1,146.4	0.0	90.2	6.3	2.2	3.6	494.9	2,933.1	804.7	3,737.8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Pennsylvania

				Petro	oleum		Biomass						
	Coal a	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total e,h
1960	5,236	232 256	25,101	959	2,763	28,824				11,094			
1965	3,185	256	28.391	1,151	2,763 2,753	32.294				14.807			
1970	2,028 561	297 273	31,242 31,587	1,612 1,799	3,368 2,023	36,222 35,409				23,007 27,678			
1975 1980 1985	329	273 288	31,367 27 838	1,799	2,023 2,362	35,409 31,556				27,676 31,767			
1985	329 280	245	27,838 24,185	1,355 1,961	2,362 2,853	31,556 28,999				32,686			
1990	262	240	20.207	2,160	1,377	23,744 25,006				38,164			
1995 2000	154 82	262 263	20,307 20,910	2,635 3,829	2,064 2,790	25,006 27,530				42,802 45,008			
2005	o∠ 50	245	20,910 19.896	3,029	2,790 1,822	27,530 25,654				53,661			
2006	50 56	206	19,896 16,902	3,937 3,897	1,822 1,420	25,654 22,219				51,790			
2007	72	231	17.139	4,509	945	22,593 32,205				54,587			
2008 2009	0	229 228	26,532	5,181 5,617	492 686	32,205				54,060 52,906			
2010	0	224	13,305 14,793	5,418	743	19,608 20,954				55,253			
2011	ŏ	219	14,793 13,963	5,085	454	20,954 19,502				54.796			
2012	0	197	12,273 13,759	4.334	190 203	16,797 18,828				52,876 54,252			
2013	0	232	13,759	4,865	203	18,828				54,252			
2014 2015	0	255 236	15,798 15,062	5,196 4,746	358 238	21,352 20,047 17,358				54,195 54,419			
2016	0	216	12,689	4,402	267	17.358				53.877			
2017	Ö	219	12.376	4,600	162	17.139				51,724 55,896			
2018	0	253 237	14,948	5,407	164	20.519				55,896			
2019 2020	0	237 221	11,576	6,184 4,849	186 176	17,946 15,328				54,396 55,307			
2020	0	226	10,302 R 13,009	4,898	187	R 18,094				55,945			
2022	Ö	237	13,574	4,886	173	18,633				56,413			
							Trillion Btu						
1960	129.5	240.2	146.2	3.7	15.7	165.6	26.1	NA	NA	37.9	599.2	R 76.3	R 675.5
1965	77.6	265.3 306.8	165 4	4 4	15.6	185 4	21.2	NA	NA	50.5	600.0	R 99 4	R 699.4 R 821.6
1970	47.8	306.8	182.0	6.2	19.1	207.3	20.5	NA	NA	78.5	660.8	H 160 8	H 821.6
1975 1980	12.6	279.5 294.7	184.0 162.2	6.9 5.2	11.5 13.4	202.4 180.8	20.8 53.3	NA NA	NA NA	94.4 108.4	609.7 643.5	R 192.8	R 802.5
1985	7.6 6.6	253.2	140.9	7.5	16.2	164.6	49.6	NA NA	NA NA	111.5	585.5	R 230.6 R 226.6	R 874.1 R 812.1
1990	6.6	249.5	117.7	8.3	7.8	133.8	26.0	0.2		130.2	546.6	R 284.7	R 831.3 R 914.4 R 946.7 R 999.6 R 909.3 R 960.5 R 1,009.6 R 915.5
1990 1995	3.8	249.5 271.4	118.2	8.3 10.1	7.8 11.7	133.8 140.0	26.0 23.4	0.2 0.2	0.4 0.5	130.2 146.0	546.6 585.4	R 284.7 R 329.0	R 914.4
2000	2.2	272.0	121.7	14.7	15.8	152.2 141.2	13.6	0.3	0.4	153.6 183.1	594.1	R 352.6	H 946.7
2005 2006	1.3 1.4	255.0 213.8	115.8 98.1	15.1 15.0	10.3 8.0	141.2 121.1	15.4 13.7	0.6 0.6	0.4 0.5	176.7	596.9 527.8	R 402.6 R 381.5	R 999.6
2007	1.8	240.2	99.1	17.3	5.4	121.8	15.1	0.8	0.5	186.3	566.5	H 394.0	R 960.5
2008	0.0	238.2	153.4	19.9	2.8	176.0	16.9	0.9	0.6	184.5	617.1	R 392.5	R 1,009.6
2009	0.0	236.8	76.9	21.6	3.9 4.2	102.3	24.1	1.2	R 0.6	180.5	545.5 R 558.7	H 370 0	H 915.5
2010 2011	0.0 0.0	231.9 228.1	85.4 80.6	20.8 19.5	4.2 2.6	110.5	25.9 25.1	1.3 1.3	R 0.7 R 0.9	188.5 187.0	R 558.7 R 544.9	R 381.7 R 372.6 R 358.9 R 365.6	R 940.4 R 917.5 R 857.1 R 923.0
2011	0.0	206.0	70.8	16.6	2.6 1.1	102.7 88.5	21.0	1.3	H 0 9	180.4	R 498 1	R 358 9	R 857 1
2013	0.0	243.5	79.3	18.7	1.2	88.5 99.1	27.3	1.3	R 1 0	185.1	R 557.4	R 365.6	R 923.0
2014	0.0	267.7	91.0	20.0	2.0	113.0	27.7	1.3	R 1.0	184.9	R 498.1 R 557.4 R 595.7	□ 364.2	n 959 9
2015	0.0	247.1	86.8	18.2	1.4	106.4	R 34.9 R 28.3 R 27.8 R 35.3	1.3	R 1.0 R 1.1	185.7	R 576.4 R 530.8	R 361.6 R 356.5	R 938.0 R 887.3
2016 2017	0.0 0.0	224.8 228.2	73.0 71.2	16.9 17.7	1.5 0.9	91.5 89.8	R 27 g	1.3 1.3	H13	183.8 176.5	R 525 0	R 334.4	11 887.3 R 859 4
2018	0.0	262.7	86.1	20.8	0.9	107.8	R 35.3	1.3	H 1.5	190.7	R 525.0 R 599.3	n 353.2	R 859.4 R 952.5
2019	0.0	245.9	66.7	23.8	1.1	91.5	п 33 Д	1.3	H17	185.6	H 559 4	R 321 6	H 881 1
2020 2021	0.0 0.0	230.1 235.2	59.3 75.0	18.6 18.8	1.0	78.9 94.9	R 22.2 R 22.5	1.3 1.3	R 1.9	188.7 190.9	R 523.1 R 546.9	R 309.9 R 309.5	R 833.0 R 856.4
2021 2022	0.0	235.2 246.5	75.0 78.3	18.8 18.8	1.1 1.0	94.9 98.0	<sup>n</sup> 22.5 27.1	1.3 1.3	R 2.1 2.5	190.9 192.5	546.9 567.7	7 309.5 313.0	856.4 880.7
2022	0.0	240.0	70.0	10.0	1.0	30.0	۲۱.۱	1.0	2.0	102.0	301.1	010.0	000.7

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Pennsylvania

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	3,639	56	4,363	364	241	2,084	5,514	12,566	NA			NA	7,125			
1965	2,403	56 68	4,935	436	240	2,585	5,899	14,096	NA			NA	9,417			
1970 1975	1,594 1,308	99 99	5,431 5,491	612 682	294 177	2,455 1,310	5,254 3,630	14,045 11,290	NA NA			NA NA	13,435 18,608			
1980	1,239	118	5,858	514	193	313	1,521	8.399	NA NA			NA NA	21,746	==		
1985	993	115	5,508	744	359	448	1,414	8,472	NA			ŅĄ	24,580			
1990 1995	1,046 1,034	126 144	6,640 6,334	819 999	150 528	701 88	794 1,221	9,104 9,170	0			(s) (s)	30,198 35,542			
2000	660	145	5,495	1 452	407	146	634	9,170 8 135	0			(s)	42,988			
2005	660 573	145	6,124	1,427	460	90	626	8,135 8,727	ŏ			(s)	45,782			
2006	568	130	5,703	1,584	420	91	287	8,084	0			(s)	45,624			
2007 2008	645 203	146 145	4,920 6,155	1,736 1,681	186 58	91 91	389 241	7,322 8,226	0			(s) (s)	47,531 47,347			
2009	194	144	4,160	1,784	90	91	245	6,369	0			3	46,411			
2010	184	142	4,091	1,784	133	90	91	6,189	Ö			30	47,366			
2011	170	141	3,647	2,089	35	90	40	5,900	0			74	43,536			
2012 2013	131 119	127 149	2,962 3,214	1,679 1,980	12 10	89 92	26 11	4,767 5,306	0			95 102	42,920 43,145			
2014	117	160	3,443	2,143	37	88	13	5,723	ő			113	43,348			
015	75	152	3,257	2,038	25	2,765	9	8,094	0			113	43,745			
016	39 25 14	143	2,653	2,118	39	2,786	20	7,616	0			123	43,535			
017 018	25 14	146 165	3,110 3,530	1,881 2,189	25 32	2,831 2,878	1	7,848 8,629	0			144 155	42,623 43,222			
019	12	162	3,463	2,088	38	2,897	Ó	8,486	ő			169	40,143			
2020	9	148	2,381 R 3,157	2,074	31 29	2,919	0	7,405	0			195	35,381			
2021 2022	7	154 167	<sup>H</sup> 3,157 3,252	2,178 2,109	29 27	2,953 3,036	(s) (s)	R 8,318 8,424	0			214 239	36,988 37,219	 		
2022	3	107	0,232	2,109	21	3,030	(5)		llion Btu			209	37,219			
1960	90.0	58.1	25.4	1.4	1.4	10.9	34.7	73.8	NA NA	0.5	NA	NA	24.3	246.7	R 49.0	R 295.7
1965	58.5	70.1	25.4 28.7	1.7	1.4	13.6	34.7 37.1	73.8 82.4	NA NA	0.5	NA NA	NA NA	24.3 32.1	246.7 243.6	R 63.2	R 306.8
970	37.5	102.6	31.6	2.3	1.7	12.9	33.0	81.6	NA	0.4	NA	NA	45.8	267.9	H 03 0	R 361 8
975	29.4	101.5	32.0	2.6	1.0	6.9	22.8	65.3	NA	0.4	NA	NA	63.5	260.1	R 129.6	H 389.7
980 985	28.7	121.1 119.3	34.1 32.1	2.0 2.9	1.1 2.0	1.6 2.4	9.6 8.9	48.4 48.2	NA NA	1.3 1.2	NA NA	NA NA	74.2 83.9	273.2 276.0	R 157.8 R 170.4	R 431.0 R 446.5
990	23.6 26.3	130.6	32.1	3.1	0.9	3.7	5.0	51.3	0.0	2.8			103.0	314.1	H 225 2	H 539 3
995	25.7 17.4	148.8	36.9	3.8	3.0	0.5	7.7	51.8	0.0	7.1	(s) 0.1	(s) (s)	121.3	354.8	R 273.2 R 336.7	R 628.0 R 702.1
000	17.4	150.4	32.0	5.6	2.3	0.8	4.0	44.6	0.0	6.1	0.2	(s)	146.7	365.3	R 336.7	R 702.1
.005 .006	14.4 14.3	150.8 135.4	35.6 33.1	5.5 6.1	2.6 2.4	0.5 0.5	3.9 1.8	48.1 43.8	0.0 0.0	4.6 4.4	0.5 0.5	(s) (s)	156.2	374.7 354.0	R 343.5 R 336.1	R 718.2 R 690.1
007	16.2	151.5	28.5	6.7	1.1	0.5	2.4	39.1	0.0	4.4	0.5	(s)	155.7 162.2	374.0	R 2//2 1	R 717.1
2008	5.2	150.2	35.6	6.5	0.3	0.5	1.5	44.3	0.0	4.7	0.6	(s)	161.5	366.5	R 343.7	R 710.3
2009	5.0	149.8	24.0	6.9	0.5	0.5	1.5	33.4	0.0	5.5	0.6	_ (s)	158.4	352.7	H 324.6	R 677.3
010	4.7	146.9	23.6	6.9	0.8	0.5 0.5	0.6	32.3	0.0 0.0	5.5 5.3	0.7	R 0.1 R 0.3	161.6 148.5	R 351.8 R 336.1	R 327.2 R 296.0	R 679.0 R 632.1
2011 2012	4.3 3.3	146.8 132.5	21.0 17.1	8.0 6.4	0.2 0.1	0.5 0.5	0.3 0.2	30.0 24.2	0.0	5.3 5.0	0.9 0.8	Ros	148.5 146.4	R 312.6	H 291 3	R 604.0
2013	3.1	156.6	18.5	7.6	0.1	0.5	0.1	26.7	0.0	5.0 5.4 5.9	0.8	R 0.3 R 0.4	147.2	H 3//0 1	R 200 7	R 630 a
2014	3.1	167.7	19.8	8.2	0.2	0.4	0.1	28.8	0.0	5.9	0.8	R 0.4	147.9	R 354.6	R 291.3	R 645.9
2015	2.0	159.4	18.8	7.8	0.1	14.0	0.1	40.8	0.0	7.5	0.8	R 0.4 R 0.4	149.3	R 360.2 R 344.8	R 290.7 R 288.1	R 650.8 R 632.9
2016 2017	1.0 0.6	148.9 152.2	15.3 17.9	8.1 7.2	0.2 0.1	14.1 14.3	0.1 (s)	37.8 39.6	0.0 0.0	7.3 7.5	0.8 0.8	R <sub>0.5</sub>	148.5 145.4	R 3/16 7	R 275 6	R 622.2
2018	0.4	171.6	20.3	8.4	0.2	14.5	(s) (s)	43.5	0.0	7.5	0.8	H 0.5	147.5	R 371.7	R 273.1	<sup>rt</sup> 644.9
2019	0.3	168.0	19.9	8.0	0.2	14.6	0.0	42.8	0.0	7.0 R 7.2	0.8	R06	137.0	H 356.4	R 227 /	R 503 8
2020 2021	0.2 0.2	154.0 160.4	13.7 18.2	8.0 8.4	0.2 0.2	14.7 14.9	0.0	36.6 41.6	0.0 0.0	<sup>H</sup> 7.2 7.2	0.8 0.8	R 0.7 R 0.7	120.7 126.2	R 320.3 R 337.2	R 198.2 R 204.6	R 518.5 R 541.8
				8.4 8.1			(s) (s)			7.2 8.9		0.8		353.0	204.6	559.4
2022	0.1	173.2	18.7	8.1	0.2	15.3	(s)	42.3	0.0	8.9	0.8	0.8	127.0	353.0	206.5	

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Pennsylvania

,					Petro	eum			Unadara	Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		illion Wh	End use f,k	energy losses	Total <sup>f,k</sup>
1960 1965	33,140	213 285	8,645 11,641	992 1,383	1,456 1,480	29,692 29,434	17,976 23,354	58,762 67,291	16				NA	20,693 29,075			
1965 1970	40,010 35,753	285 340	11,641 10,196	1,383 2,396		29,434	23,354 23,465	64,370	15 12				NA NA	29,075			
1975	28,510	263	11,033	3,439		21,941	24,391	61,902	1				NA NA				
1980	21,877	337	11,128	5,238		11,555	22,987	51,494					NA	46,045			
1985 1990	13,716 14,546	231 241	6,434 7,489	4,624 3,177	1,276 1,180	2,624 5.734	19,794 27,019	34,753 44,600	1				NA (s)	42,520 45,992			
1995	14,885	252	4,392	1,687	934	2,888	26,762	36,663	ő				(s)	47,528			
2000	10,508	235	5,576	1,766		1,994	25,625	35,664	0				(s)	45,449			
2005 2006	9,957 9,595	190 195	5,681 7,293	6,649 7,372		1,915 1,709	30,674 30,102	46,760 48,588	0	==			(s) (s)	47,950 47,920			
2006	9,264	195	7,293 7,847	6 933	1,542	1,709	29,370	46,991	0				(s)	48,579			
2008	9,135	196 198	7,847 8,775	6,933 8,517	837	1,045	27,039	46,212	ŏ				(s)	48,131			
2009	6,017	186	5,495	7,851	840	750	26,299	41,236	0				1	43,552			
2010 2011	7,498 7,217	221 247	5,903 7,049	7,722 R 8,246	2,048 1,241	679 696	24,559 22,386	40,911 R 39,617	0				10 35				
2012	6,872	282 340	7,877	r 6.042	2.073	205	18.501	R 34 697	0	==		==	50	48.039			==
2012 2013	7,908	340	8,707	R 6,021	2,133	205 139	18,501 20,541	rt 37.541	0				50 58	48,039 48,043			
2014 2015	8,056 7,567	399 386	9,924 8,869	R 6,319 R 6,217	1,716 1,494	78 90	21,405	R 39,443 R 38,999	0				63 68	48,318 47,404			
2015	7,567 5,818	401	6.389	R 6,329	1,494	123	22,330 R 21,766	R 36,091	0				68	47,404			
2017	6,012	415 457	7,264	R 6.207	1,503	95 76	H 22 457	H 37.526	ŏ				64	47,889			
2018	6,223	457	7,522	R 6,313	1,523	76	H 21.194	R 36,628	0				66	49,155			
2019 2020	6,002 4,157	497 _ 472	7,609 5,579	R 6,203 R 6,525	1,521 1,534	92 112	R 17,615 R 13,033	R 33,040 R 26,783	0				70 75				
2021	5,760	R 515	7,450	R 6,696	1,514	90	R 13,728	R 29,478	0	==		==	77				==
2022	5,888	523	7,530	24,200	1,589	92	14,507	47,918	0				85	50,883			
									Trillion Bt	u							
1960	873.1	220.0	50.4	3.8	7.6	186.7	110.7	359.1	R <sub>0.1</sub>	19.8	NA	NA	NA	70.6	R 1,542.7	R 142.4	R 1,685.1
1965 1970	1,053.3 932.1	296.1	67.8	5.2 8.7	7.8	185.0	142.3	408.2 388.4	R 0.1 R (s)	25.8	NA	NA	NA		R 1,882.6 R 1,837.2	R 195.1 R 272.5	R 2,077.8 R 2,109.7
1975	743.1	351.2 269.8	59.4 64.3	12.2		170.6 137.9	143.5 148.1	368.4	·· (S)	32.3 36.3	NA NA	NA NA	NA NA		1,558.3	R 287.4	R 1 845 7
1980	573.1	344.0	64.8	18.5	3.1	72.6	139.5	298.5	(s) (s)	74.6	NA	NA	NA	157.1	1,445.8	R 334.2	R 1,845.7 R 1,780.0
1985	359.2	238.7	37.5	15.8		16.5	122.7	199.2	(s)	87.4	0.0	NA	ŅĄ	145.1	1,029.5	R 294.8 R 343.1	R 1,324.3 R 1,419.8
1990 1995	382.1 392.2	250.9 261.4	43.6 25.6	11.0 5.8		36.0 18.2	166.3 165.3	263.1 219.8	0.0 0.0	23.7 33.2	0.0 0.0	0.0 0.0	(s)	156.9 162.2	1,076.7 1,068.7	H 343.1 R 365.3	R 1,419.8
2000	277.9	243.6	32.4	6.0		12.5	158.3	212.9	0.0	38.0	0.0	0.0	(s)	155.1	927.4	R 356.0	<sup>n</sup> 1.283.4
2005	250.3	197.5	33.1	22.8	9.6	12.0	190.6	268.1	0.0	32.6	(s)	0.0	(s)	163.6	912.0	R 359 8	<sup>rt</sup> 1.271.8
2006 2007	240.5 232.3	202.5 203.7	42.3 45.4	25.2 23.5	10.9 7.9	10.7 8.2	186.6 181.7	275.8 266.7	0.0	30.3 30.5	(s)	0.0 0.0	(s) (s)	163.5 165.8	912.6 898.9	R 353.0 R 350.7	R 1,265.6 R 1,249.6
2007	232.3	203.7	50.7	23.5 28.7	4.3	6.6	167.4	257.6	0.0	30.5	(s)	0.0	(S)	164.2	884.7	R 349.4	R 1 234 1
2009	147.9	193.1	31.7	26.0	4.3	4.7	163.2	230.0	0.0	28.9	(s)	0.0	(s) R (s)	148 6	748 4	R 304.6	H 1 053 1
2010	186.2	228.8	34.1	29.6	10.4	4.3	152.7	231.0	0.0	38.1 52.2	5.4	0.0	R (s)	155.1 169.2	844.7	R 314.0	R 1,158.7 R 1,222.4
2011 2012	180.3 185.6	257.1 294.9	40.7 45.4	R 31.6 R 23.2	6.3 10.5	4.4 1.3	138.7 115.2	R 221.6 R 195.6	0.0 0.0	52.2 52.2	4.7 4.7	0.0 0.0	R 0.1 R 0.2	169.2 163.9	R 885.2 R 897.2	R 337.1 R 326.1	R 1,222.4 R 1,223.3
2012	217.2	357.3	50.2	R 23 1	10.8	0.9	126.3	R 211.2	0.0	59.8	5.7	0.0	R 0 2	163.9	R 1 015 /	R 323.7	R 1 330 1
2014	221.8	419.6	57.2	R 24.2	8.7	0.5	132.3	R 211.2 R 222.9	0.0	54.9	5.3	0.0	R 0.2	164.9	R 1 089 6	R 323.7 R 324.7	H 1 414 2
2015	207.6	405.0	51.1	R 23.8 R 24.3	7.6	0.6	138.3 137.2	R 221.4 R 206.6	0.0	53.1	5.1 5.6	0.0	R 0.2 R 0.2	161.7	R 1,054.2 R 1,005.6	R 315.0 R 311.8	R 1,369.2 R 1,317.5
2016 2017	159.7 167.1	418.1 432.7	36.8 41.8	R 23.8	7.5 7.6	0.8 0.6	H 1/1 /	R 215 2	0.0 0.0	54.7 54.6	5.6 5.2	0.0	R 0.2	160.8 163.4	R 1,005.6	R 311.8	R 1,317.5 R 1,348.2
2018	175.7	475.0	43.3	H 24.2	7.7	0.5	H 133.6	R 209 3	0.0	51.5	5.0	0.0	R 0.2	167.7	H 1 084 5	H 310.6	R 1 395 1
2019	170.4	516.1	43.8	R 23 8	7.7	0.6	K 111.1	R 186 9	0.0	49.0	5.7	0.0	R 0.2	172.0	R 1,100.4 R 976.8	R 298.2	H 1.398.5
2020 2021	118.0 164.6	R 491.0 R 535.0	32.1 42.9	R 25.0 R 25.7	7.7 7.6	0.7 0.6	R 82.1 R 86.9	R 147.7 R 163.7	0.0 0.0	48.9 47.8	5.1 6.3	0.0 0.0	R 0.3 R 0.3	165.8 170.6	R 1,088.3	R 272.3 R 276.6	R 1,249.1 R 1,365.0
2021	167.7	542.7	43.4	74.4	8.0	0.6	92.0	218.3	0.0		6.3	0.0	0.3		1,163.0	282.3	1,445.3
			.5		5.0	0		5.0	0.0	, <b>.</b>	0.0	0.0	0.0	.,,,,	.,.30.0	_52.0	.,

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Pennsylvania

						Pe	etroleum							<u> </u>
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	569	15	1,994	7,662	20	1,036	1.343	76,565	5,005	93,625	306			
1965 1970	130	15 19 27	1,922 662	8 900	60	3,406	1,343 1,121 1,327	81,658 98,082	4,554 5,548 5,788	101,622 127,497	232			
1970	57	27	662	12,662	134	9,083	1,327	98,082	5,548	127,497	184			
1975 1980	0	18 29	426 337	16,566 21,539	157 147	8,469 10,148	1,094 1,312	106,357 107,026	5,788 4,796	138,857 145,306	194 186			
1985	0	33	208	20.337	249	10,126	1.194	100,255	2.139	134,508	365			
1985 1990	Ö	33 34 38	208 145	20,337 23,187	157	12,042	1,194 1,344	105,586	2,139 5,584	134,508 148,044	365 396			
1995	0	38	125	29,224	188	12,313	1,282	111,261	4.769	159,162	379			
2000 2005	0	39 31 28 35 38 42	154 100	33,989 38,790	68 197	19,009 16,826	1,369 1,155	117,185 121,878	4,699 4,600	176,473 183,546 183,371 182,120	401 880			
2006	0	28	218	40,699	179	16,465	1,125	120,499	4,000	183,340	816			
2007	ŏ	35	97	39.473	130	15.503	1.162	122,337	4,186 3,419	182,120	876			
2008	0	38	100	34,423 34,787	289 210	14,435 12,476	1,079 970	119,724	3,536 2,397	173,586 172,089	863 879			
2009	0	42	69	34,787	210	12,476	970	121,181	2,397	172,089	879			
2010	0	48	106	36,048	25	12,268	904	120,515	798	170,665	887			
2011 2012	0	52 37	116 121	37,540 38,285	25 27	12,085 11,977	872 823	118,396 116,448	448 1,192	169,482 168,872	840 875			
2012	0	38	106	37,395	31	12,349	849	117,184	1,005	168,920	814			
2014	ŏ	42	97	38.346	36	12.235	866	115,666	569	167.814	827			
2015	0	44	102	37,211	36 75	12,217	908	115,666 112,768	569 330	163,612	776			
2016	0	41	73 73	34,437	84	12,409	R 831 R 765	113,617	421	H 161 871	787			
2017	0	44	73	34,489	203	12,811	n 765	114,497	196	R 163,034	755			
2018 2019	0	47 51	73 84	36,608 37,250	127 96	13,158 13,720	R 730 R 705	111,077 111,575	202 269	R 161,976 R 163,700	703 619			
2020	0	48	67	_ 35,394	46	7,959	R 614	94,548	108	R 138,735	425			
2021	Ŏ	53 58	77	R 36,004	104	9,293	R 653	102,894	229 235	<sup>n</sup> 149,942	407			
2022	0	58	79	36,568	164	9,994	691	100,935	235	149,389	530			
							Tri	llion Btu						
1960	14.6	15.6	10.1	44.6	0.1	5.7	8.1	402.2	31.5	502.3	1.0	533.6	R 2.1 R 1.6	R 535.7
1965	3.3 1.4	20.1 27.5	9.7 3.3	51.8 73.8	0.2 0.5	19.2 51.4	6.8	429.0 515.2	28.6 34.9	545.3 687.1	0.8 0.6	569.5 716.7	P 1.6 R 1.3	R 571.1
1970 1975	0.1	18.1	2.1	96.5	0.6	47.9	8.0 6.6	558.7	36.4	748.9	0.6	716.7 767.8	R 1.3	R 718.0 R 769.1
1980	0.0	30.1	1.7	125.5	0.6	57.4	8.0	562.2	30.2	785.5	0.6	816.2	R 1.3	R 817.6
1985	0.0	34 1	1.0	118.5	1.0	57.3	7.2	526.6	13.4	785.5 725.1	1.2	760.4	R 1.3 R 2.5	R 763.0
1990	0.0	35.8 39.3	0.7	135.1 170.1	0.6	68.2	8.1 7.8	554.6 579.0	35.1 30.0	802.5 858.0	1.4	839.6	3.0 2.9 R 3.1	R 842.5 R 901.5
1995	0.0	39.3	0.6	170.1	0.7	69.8	7.8	579.0	30.0	858.0	1.3	898.6	2.9	<sup>n</sup> 901.5
2000	0.0 0.0	40.2 32.3	0.8 0.5	197.8 225.7	0.3 0.8	107.8 95.4	8.3	609.5 632.8	29.5	953.9 991.1	1.4	995.5	1.3.1 Ree	R 998.6
2005 2006	0.0	32.3 28.8	1.1	225.7 236.2	0.8	95.4 93.4	7.0 6.8	624.8	28.9 26.3	991.1 989.2	3.0 2.8	1,027.1 1,022.8	R 6.6 R 6.0 R 6.3 R 6.3 R 6.1 R 6.1	1,033.7 R 1,028.8
2007	0.0	36.5	0.5	228.3	0.5	87.9	7.0	629.1	21.5	974.8	3.0	1 017 0	R 6.3	R 1,023.3 R 973.0
2008	0.0	39.0 43.3 49.5	0.5	199.0	1.1	81.8	6.5	611.3	22.2	922.5	2.9	966.7 957.0	R 6.3	R 973.0
2009 2010	0.0	43.3	0.4	201.0 208.2	0.8	70.7	5.9 5.5	616.8	15.1 5.0	910.6 899.5	3.0 3.0	957.0	H 6.1	R 963.1 R 958.2
2010	0.0 0.0	49.5 53.6	0.5 0.6	208.2 216.6	0.1 0.1	69.6 68.5	5.5	610.6 599.4	5.0 2.8	899.5 893.4	3.0 2.9	952.1 949.8	" 6.1 R 5 7	R 958.2 R 955.5
2011	0.0	33.0 39.1	0.6	220.8	0.1	67.9	5.3 5.0 5.1 5.3 5.5 5.0	589.4 589.5	∠.0 7.5	093.4 891 /	3.0	949.6 933.5	5.7 R 5 a	R 930.5
2013	0.0	39.1 40.0	0.5	215.5	0.1	70.0	5.1	589.5 593.0	7.5 6.3	891.4 890.6	2.8	933.5 933.4	R 5.9 R 5.5 R 5.6 R 5.2 R 5.2 R 4.9	R 939.4 R 938.9
2014	0.0	44.6	0.5	221.0	0.1	69.4	5.3	585.2	3.6	885.0	2.8	932 4	R 5.6	H 938 0
2015	0.0	45.7	0.5	214.4	0.3	69.3	5.5	570.3	2.1	862.3	2.8 2.6 2.7	910.7 R 896.6	H 5.2	R 915.8 R 901.8
2016	0.0	42.5	0.4	198.3	0.3	70.4	5.0	574.3	2.6	851.3 R 856.8	2.7	n 896.6	n 5.2	H 901.8 R 910.4
2017 2018	0.0 0.0	46.2 48.9	0.4 0.4	198.6 210.8	0.8 0.5	72.6 74.6	4.6 4.4	578.6 561.4	1.2	" 856.8 R 853 4	2.6 2.4	905.5 R 904.7	H 4.4	11910.4 R 900 1
2019	0.0	52.7	0.4	214.5	0.5	74.6 77.8	R 4.3	563.7	1.3 1.7	R 853.4 R 862.8	2.1	917.5	R37	R 909.1 R 921.2
2020	0.0	49.5	0.3	203.7	0.2	45.1	3.7 R 4.0	477.7	0.7	731.4	1.5	917.5 R 782.4	R 3.7 R 2.4	784.8
2021	0.0	55.4 60.0	0.4	R 207.5	0.4	52.7	R 4.0	519.6	1.4	R 789.7	1.4	H 846.5	2.3 2.9	R 848.8
2022	0.0		0.4	210.8	0.6	56.7	4.2	509.6	1.5	787.7	1.8	849.5		852.5

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Pennsylvania

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	18,062	6	485	0	2.747	3,232	230	1,810		0	NA	NA	0	
1965 1970	23,182 29,141	Ĭ	591	0	2,747 3,351 22,502	3,943	313 465	1,313 1,354		Ö	NA	NA	Ö	
1970	29,141	9	3,959	0	22,502	26,460	465	1,354		0	NA	NA	0	
1975	36,659 42,466 41,713	1	3,419	0	10,273 17,226 11,622	13,691 19,780	15,869	1,575 734 971		0	NA NA	NA NA	0	
1980 1985	42,466	3 2	2,238 1,423	316 782	11,226	13,827	12,091 26,232	734		0	NA O	NA 0	0	
1900	41,713 45.165	15	2,140	1 005	6 650	9,795	20,232 57 787	2 860		0	0	0	0	
1990 1995 2000	45,165 46,895 52,266	15 39 21	1 202	1,005 1,310 26 534 179 0	6,650 4,836 4,744 7,058	7 545	57,787 66,462	2,869 2,030 2,290		ő	0	ő	16	
2000	52.266	21	2,593	26	4,744	7,545 7,363	73,771	2.290		Ŏ	Ö	10	0	
2005	54.464	81	1,273	534	7,058	8.865	76.289	2.232		Ö	Ö	284	-286	
2006 2007	55,936 55,712	101 144	651	179	949 1,516	1,779 2,353	75,298 77,376	2,844 2,236		0	0	361 470	-95 62	
2007	55,712	144	838	. 0	1,516	2,353	77,376	2,236		0	0	470	62	
2008	53,995 48,853 50,888	141	2,593 1,273 651 838 794 592 735	137	701 776 408	1,632	78,658	2,549		0	(s)	729 1,075 1,854	533	
2009 2010	48,853	211 246	592	140	//6	1,508 1,143	77,328 77,828	2,683 2,332		0	4	1,0/5	170 421	
2010	30,000 47.403	240	671	0	230	902	76,147	2,332		0	18	1,004	435	
2012	47,403	394	502	0	107	902 608	75,174	2 242		0	26	2 129	1,339	
2013	47,403 41,602 41,992	306 394 362 388 438 501 527 539 673	502 571	0	97	608 668	78,714	3,217 2,242 2,525 2,641		ŏ	55	1,794 2,129 3,352	1.109	
2014	38,307	388	1.003	Ŏ	228	1.231	78 715	2,641		Ŏ	50	3.565	554	
2015	31,391	438	1,043	0	0	1,043	80,517	2,604		0	52	3,353	554 536	
2016	38,307 31,391 27,528 24,384 23,503 19,480	501	585	1	0	587	82,924	2,604 2,375 3,123 4,262 3,503		0	61	3 476	309	
2017	24,384	527	519	0	0	519 1,362 385	83,200	3,123		0	56	3,591 3,567 3,250	32	
2018 2019	23,503	539	1,352 378	0	9	1,362	83,477 83,230	4,262		0	50	3,567	44 0	
2019	19,480	0/3	378 167	0	8	385 176	76,521	3,503 2,672		0	70 128	3,250	0	
2020 2021	13,622 16,270	852	241	0	3	2//	75,903	2,072		0	212	3,740	0	
2022	14,748	829 852 884	554	ő	23	244 577	76,166	3,135 2,653		ő	222	3,455 3,572	ő	
							Trillion Btu							
1960	423.3 558.6	6.2 1.3	2.8 3.4	0.0 0.0	17.3	20.1	2.7 3.7 5.1	R 6.2 R 4.5 R 5.4 R 2.5 R 9.8 R 7.6 R 7.6 R 8.7.6 R 8.1 R 10.0 R 10.7 R 14.2 R 10.7 R 14.2 R 10.7 R	0.0 0.0	0.0 0.0	NA	NA	0.0	R 458.4 R 592.5 R 864.1 R 1,127.3 R 1,287.2 R 1,389.3 R 1,759.1 R 1,882.4 R 2,085.7 R 2,192.0 R 2,180.0 R 2,1251.7 R 2,207.8 R 2,147.5 R 2,238.1 R 2,149.7 R 2,161.8 R 2,023.1 R 2,103.5 R 1,960.1 R 2,038.7 R 1,960.1 R 2,038.7 R 1,960.1 R 2,038.7 R 1,960.1 R 2,038.7 R 2,038.7 R 1,960.1 R 2,038.7 R 3,038.7 R
1965	558.6	1.3	3.4	0.0	21.1	24.5	3.7	H 4.5	0.0	0.0	NA	NA	0.0	H 592.5
1970	680.2	9.7	23.1	0.0	141.5	164.5	5.1	n 4.6	0.0	0.0	NA	NA	0.0	R 4 407.0
1975 1980 1985	861.4	9.7 1.2 2.9 1.6	23.1 19.9 13.0 8.3	0.0	64.6	84.5 123.2	174.8 131.9	11 5.4 R o s	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	1,127.3 R 1 207 2
1985	1,026.7 1,019.7	2.9 1.6	13.0	1.9 4.7	108.3 73.1	86.1	278.6	∠.5 R 3 3	0.0	0.0	0.0	0.0	0.0 0.0	R 1 389 3
1990	1,013.7	14.0	12.5	6.1	41.8	60.3	611.5	R 9 8	8.8	0.0	0.0	0.0	0.0	R 1 759 1
1990 1995	1,054.7 1,062.4	14.0 40.6	12.5 8.1	6.1 7.9	41.8 30.4	60.3 46.4	611.5 698.3	R 6.9	8.8 27.7	0.0 0.0	0.0	0.0	0.0 0.1	R 1.882.4
2000	1 210 6	21.3	15.1 7.4 3.8	0.2	29.8	45.1	769 4	R 7.8	21 5	0.0	0.0	0.0 0.0 R (s) R 1.0	0.0	R 2,085.7
2005 2006	1,224.9 1,243.1 1,241.6	83.5 104.4 148.3	7.4	3.1	44.4 6.0	54.8 10.8	796.2 785.7	R 7.6	25.0 25.5 26.4 28.6 28.5 30.1	0.0 0.0	0.0	R 1.0	-1.0 -0.3	R 2,192.0
2006	1,243.1	104.4	3.8	1.0	6.0	10.8	785.7	H 9.7	25.5	0.0	0.0	H 1.2	-0.3	H 2,180.0
2007	1,241.6	148.3	4.8 4.6 3.4 4.2	0.0	9.5	14.4	811.6	n 7.6	26.4	0.0	0.0	n 1.6	0.2	n 2,251.7
2008 2009	1,188.6 1,071.1	145.8 216.6 252.2	4.6	0.8 0.8	4.4 4.9	9.8 9.1	822.1 808.8	" 8.7 B o o	28.6	0.0	(s)	H 2.5	1.8 0.6	11 2,207.8 B 0 147.5
2009	1,071.1	210.0 252.2	3.4 4.2	0.0	2.6	6.8	813.5	R 8 0	20.5 30.1	0.0 0.0	(s) R (s)	3.7 R63	1.4	R 2 238 1
2010	1,113.0	315.0	3.9	0.0	1.4	5.3	796.8	R 11.0	28.7	0.0	H 0 1	R 6.1	1.7	R 2 192 8
2011 2012	1,028.4 904.2 905.8	315.0 407.0	3.9 2.9	0.0	0.7	5.3 3.6	787.8	R 7.6	28.7 27.6 27.5	0.0 0.0	R 0.1	R 1.2 R 1.6 R 2.5 R 3.7 R 6.3 R 11.4 R 11.9 R 11.4 R 11.9 R 12.2	1.5 4.6	R 2.149 7
2013	905.8	378.1 404.3 456.2	3.3 5.8 6.0	0.0	0.6	3.9	822.5	R 8.6	27.5	0.0	R 0.1 R 0.2	R 11.4	3.8	R 2,161.8
2014 2015	814.3 669.2	404.3	5.8	0.0	1.4 0.0	7.2	823.3 842.0	R 9.0	26.9 27.2	0.0 0.0	R 0.2 R 0.2	R 12.2	1.9 1.8	R 2,099.2
2015	669.2	456.2	6.0	0.0	0.0	6.0	842.0	H 8.9	27.2	0.0	H 0.2	H 11.4	1.8	H 2,023.1
2016 2017	574.1 501.8 468.0	520.1 544.9 557.8	3.4 3.0 7.8	(s) 0.0 0.0	0.0	3.4	867.3	H 8.1	27.3 27.5 26.7	0.0	R 0.2 R 0.2 R 0.2	H 11.9	1.1	H 2,013.4
2017	501.8	544.9	3.0	0.0	0.0	3.0 7.8	870.2 872.7	n 10.7	27.5	0.0	n 0.2	n 12.3	0.1 0.2	1,970.5
2018	4b8.U	557.8	7.8	0.0	0.1	7.8	8/2./ 869.1	" 14.5 B 10.0	20.7	0.0 0.0	Hna	H 12.2	0.2	" 1,960.1 B 2.012.5
2019 2020	398.1 256.0	696.8 859.2	2.2	0.0	(s) 0.1	2.2	799.1	R q 1	24.0 22.2	0.0	R 0.2	R 12.8	0.0 0.0	R 1 960 1
2020	320.4 267.7	882.1 915.4	1.4 3.2	0.0	(s) 0.1	2.2 1.0 1.4 3.3	799.3 R 791.6	R 10 7	19.9 16.5	0.0	R 0.4 R 0.7 0.8	R 11.1 R 12.8 R 11.8 12.2	0.0	R 2 038 7
		ا . ا	1.7	0.0	(3)	1.7	794.3	10.7	10.0	0.0	0.7	11.0	0.0	2,000.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Rhode Island

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Γhousand barrels				Mi	llion kilowatthours	<b>.</b>	Thousan	d barrels
1960	598	12	8,106	207	38	5 975	9 827	2,016	26 170	0	9	0	NA	NA
1965	598 419	12 16	6,879	207 223	38 49	5,975 6,492	9,827 6,276	2,081	26,170 22,000	ŏ	ž	ŏ	NA	NA
1970	10 9	25 26	8,631	375	137 125	8,009	9.727	1,868	28,746	0	3	0	NA	NA
1971	9 7	26	9,073	363	125	8,220	10,100	1,988	29,870	0	1	0	NA	NA
1972 1973	7	22 21	9,301 8,881	428 449	174 175	8,604 8,625	9,744 8,440	1,683 2,101	29,935 28,672	0	6 5	0	NA NA	NA NA
1973		24	8,288	408	165	8,719	6,381	1,801	25,762	0	5 1	0	NA NA	NA NA
1975	40 7	23	8,003	498	271	8,972	4,389	1,944	24,076	0	3	0	NA	NA
1976	6	21	8.633	549	241	8.813	4,478	1,973	24.688	Ö	3	Ö	NA	NA
1977	5	26 23	8,401	600	209	9,207	4,738	2,011	25,166	0	4	0	NA	NA
1978	5	23	7.887	518	260	9,098	3,671	1,909	23,343	0	4	0	NA	NA
1979	5	27	7,237	317	312	8,873	2,178	1,651	20,567	0	3	0	NA	NA
1980	7	28	5,032	293 278	348	8,416	2,525	1,671	18,287	0	1 (-)	0	NA	NA
1981 1982	8 8	29 28	3,983 3,972	328	303 281	8,519 8,415	2,204 1,649	1,222 1,491	16,508 16,135	0	(s) 3	0	(s)	NA NA
1983	0 7	20	4,706	330	201	8,299	1,465	1,491	16,564	0	3	0	(8)	NA NA
1984	9	29 32	5,448	314	329 571	8,562	1,690	1,631	18,217	0	2	0	0	NA NA
1985	9	30	4.940	501	498	8.665	2.232	3,275	20,111	Õ	0	ŏ	Ö	NA NA
1986	28	26	5,771	585	498 387	8,938	2,232 3,771	1,870	21,323	Ō	Ō	Ö	Ō	NA
1987	5	36	6.748	669	528	9.140	2.318	2,136	21.539	0	0	0	0	NA
1988	175	31	6,644	564	636	9,277	3,042	2,092	22,255	0	0	0	0	NA
1989	27	34	6,373	502	724	8,874	1,692	1,903	20,068	0	.5	0	0	NA
1990	5 4	39	5,285	501	776	8,765	1,424	1,923 677	18,674	0	10	0	0	NA
1991 1992	5	76 116	5,739	466 456	656 556	8,681 8,756	1,093 1,192	1,720	17,311 18,676	0	10 10	0	0	NA NA
1992	3	74	5,996 5,745	513	556 527	8,883	1,303	1,017	17,989	0	9	0	0	NA NA
1994	3	109	6,471	501	529	8 630	1,163	1,463	18 757	0	9	0	0	NA
1995	3	101	5,839	461	529 500	8,927	936	1,463 1,220	18,757 17,882	Ŏ	9	Ŏ	Ŏ	NA
1996	3	120	6.008	536	540	9.006	984	573	17.647	Ō	10	0	0	NA
1997	3	118	6,705	422	828	9,195	904	546	18,599	0	8	0	0	NA
1998	2	131	5,578	481	920	9,391	683	596	17,649	0	9	0	0	NA
1999	2	118	5,465	506	1,057 1,283	9,593	641	614	17,876	0	6	0	0	NA
2000 2001	2	88 96	5,459 5,750	447 431	1,283 1,304	9,468 9,617	681 633	478 547	17,815 18,282	0	5 3	0	0	NA (a)
2001	3	96 88	5,750 5,678	560	1,286	9,617 9,452	610	448	18,034	0	3	0	10	(8)
2002	4	78	6,583	473	1,200	9,474	683	543	18 812	0	6	0	11	(s) (s) (s) (s) 2
2004	3	73	6,515	360	1,056 1,035	9,108	683 671	543 392	18,812 18,082	ő	5	ŏ	198	(s)
2005	3	81	6.177	433	825	9 2 1 6	727	568 532	17,946	Ö	7	Ö	299	2
2006	2	77	5,329	416	593	9,854	478	532	17,201	0	6	0	800	5
2007	2	88	5,780	417	335 300	9,730	411	197	16,870 17,146	0	4	0	1,033 961	6
2008	0	89	5,033	408	300	9,727	242	1,437	17,146	0	5	0	961	5
2009	0	93 94	5,590	402	694	9,446	547	963	17,642	0	5	0	1,110	6
2010 2011	0	100	5,424 5,024	356 396	621 675	9,378 8,837	232 179	1,080 824	17,092 15,936	0	4 7	3	995 913	6 5 16 13 68 69 76 93
2012	0	95	4,777	382	607	8,566	1/9	899	15,281	0	1	1	866	13
2013	0	86	5 053	448	584	8,629	49 37	1,147	15,896	0	4	3	889	68
2014	ŏ	89	5,653	554	584 524 561 525	8.742	46	1,171	16.689	ŏ	4	10	908	69
2015	Ö	94	5,653 5,423	526	561	9,031	47	<u>1</u> ,114	16 702	Ö	3	10	941	76
2016	0	86	3.684	557	525	8,897	64	1,114 R 945	14,672 R 14,853 R 16,271	0	2	27	922	93
2017	0	92	3,818	596	492	8,875	26	H 1 045	H 14,853	0	2	149	924	101
2018	0	102	4,783	779	439	9,261	4	R 1,006	H 16,271	0	4	159	956	66 46 48
2019	0	95 98	4,206	691	402	9,098	10	R 1 000	R 15,317 R 13,452	0	4	206	956	46
2020	0	98	3,860 R 4,789	646	303	7,612	2	R 1,029 R 1,074	R 13,452 R 15,067	0	4	215	807	48 B 47
2021 2022	0	103 91	4,886	659 651	266 370	8,266 8,437	13 13	1,074	15,067	0	4	172 209	883 903	R 47 39
LULZ	U	91	4,000	100	3/0	0,437	13	1,000	15,443	U	1	209	903	39

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

distillate fuel oil. Excludes biofuels product supplied.

<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Rhode Island (trillion Btu)

					Fossi	fuels						Fossil fuels (as commingled)	
						Petroleum						as commingica)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol
960	16.8	12.3	47.2	0.8	0.2	31.4	61.8	12.2	153.6	182.6	12.3	47.2	31.4
965	11.5 0.2 0.2	17.0	40.1	0.9	0.3	34.1	39.5	12.7	127.5	156.0	17.0	40.1	34.1
970 971	0.2	25.6 26.2	50.3 52.9	1.4 1.4	0.8 0.7	42.1 43.2	61.2 63.5	11.5 12.3	167.1 173.9	193.0 200.3	25.6 26.2	50.3 52.9	42.1 43.2
971 972	0.2	20.2 23.0	54.2	1.4	1.0	43.2 45.2	61.3	10.3	173.9	196.6	20.2	52.9 54.2	43.2 45.2
973	0.1	23.0 20.9	51.7	1.6 1.7	1.0	45.2 45.3	53.1	13.1	173.5 165.9	186.9	23.0 20.9	51.7	45.2 45.3
974	1.0	24.1	48.3	1.5	0.9	45.8	40.1	11.3	147.9	173.0	24.1	48.3	45.8
975 976	0.1 0.1	23.5 21.0	46.6 50.3	1.8 2.0	1.5 1.4	47.1 46.3	27.6 28.2	12.2 12.3	136.8 140.4	160.4 161.5	23.5 21.0	46.6 50.3	47. 46.3
970 977	0.1	26.0	48.9	2.2	1.2	48.4	29.8	12.7	143.2	169.2	26.0	48.9	48.4
978	0.1	23.3	45.9	1.9	1.5	47.8	23.1	12.0	132.1	155.6	23.3	45.9	47.8
979	0.1	27.5	42.2	1.2	1.8	46.6	13.7	10.2	115.6	143.3	27.5	42.2	46.0
980 981	0.2 0.2	27.9 28.9	29.3 23.2	1.1 1.0	2.0 1.7	44.2 44.8	15.9 13.9	10.4 7.9	102.8 92.5	130.9 121.5	28.2 29.8	29.3 23.2	44. 44.
82	0.2	28.1	23.1	1.2	1.6	44.2	10.4	9.6	90.1	118.5	28.9	23.1	44.
83	0.2	29.4	27.4	1.2	1.9	43.6	9.2	9.3	92.6	122.2	30.1	27.4	43.
84	0.2	32.5	31.7	1.2	3.2	45.0	10.6	10.6	102.3	135.1	32.6	31.7	45.
85 86	0.2 0.7	30.7 26.9	28.8 33.6	1.9	3.2 2.8 2.2	45.5 47.0	14.0 23.7	21.5 12.0	114.5 120.6	145.4 148.3	30.9 27.1	28.8 33.6	45. 47.
37	0.7	36.8	39.3	2.5	3.0	48.0	14.6	13.8	121.2	158.1	36.9	39.3	48
38	4.4	31.2	38.7	2.1	3.6	48.7	19.1	13.5	125.8	161.4	31.6	38.7	48
39	0.7	34.6	37.1	1.9	4.1	46.6	10.6	12.3	112.7 104.5	148.0	34.9	37.1	46
90	0.1 0.1	40.4 78.0	30.8 33.4	1.9	4.4 3.7	46.0 45.6	9.0 6.9	12.5 4.3	104.5 95.7	145.0 173.7	40.5 78.1	30.8 33.4	46 45
92	0.1	117.8	34.9	1.7 1.7	3.1	46.0	7.5	11.2	104.5	222.4	117.9	34.9	46
93	0.1	76.5	33.5	1.9	3.1 3.0	46.3	7.5 8.2	6.6	99.5	176.1	117.9 76.6	33.5	46
94	0.1	112.1	37.7	1.9	3.0	45.0	7.3	9.5 7.9	104.4 98.8	216.6	112.1	37.7	45.
95 96	0.1 0.1	103.5 127.1	34.0 35.0	1.7 2.0	2.8 3.1	46.5 46.9	7.3 5.9 6.2	7.9 3.6	98.8 96.8	202.4 224.0	103.5 127.2	34.0 35.0	46 46
97	0.1	120.5	39.0	1.6	4.7	47.9	5.7	3.4	102.3	222.8	120.5	39.0	47
98	0.1	134.0	32.5	1.8	5.2	48.9	4.3	3.7	96.3	230.4	134.0	32.5	48
99	(s)	120.7	31.8	1.9	6.0	49.9	4.0	3.8	97.4	218.2	120.7	31.8	49
00 01	0.1 0.1	91.8 98.6	31.8 33.5	1.7 1.6	7.3 7.4	49.2 50.0	4.3 4.0	2.9	97.2 99.8	189.0 198.4	91.8	31.8 33.5	49 50
02	0.1	89.8	33.0	2.1	7.4	49.1	3.8	3.3 2.7	98.1	188.0	98.6 89.8	33.5 33.0	49
03	0.1	80.3	38.3 37.9	1.8	6.0	49.2	4.3	3.4	103.0	183.4	80.3 74.4 82.5	38.3 37.9	49 47
04	0.1	74.4	37.9	1.4	5.9	46.6	4.2	2.4	98.4	172.8	74.4	37.9	47
)5 )6	0.1	82.5 78.5	35.9 30.9	1.6 1.5	4.7 3.4	46.8 48.3	4.6 3.0	3.6 3.3	97.2 90.5	179.7 169.0	82.5 78.5	35.9 30.9	47 51
70	(s) (s)	90.3	33.4	1.6	1.9	46.4	2.6	1.1	87.0	177.3	90.3	33.4	50
08	0.0	91.2	29.1	1.5 1.5	1.7	46.3	1.5	9.4	89.6	180.8	912	29.1	49
09	0.0	94.9	32.2	1.5	3.9	44.2	3.4	6.3	91.6	186.5	94.9	32.3	48
10 11	0.0 0.0	95.7 102.5	31.3 28.8	1.4 1.5	3.5 3.8	44.1 41.6	1.5 1.1	7.1 5.4	88.7 82.3	184.4 184.7	95.7 102.5	31.3 29.0	47 44
2	0.0	98.4	27.4	1.5	3.4	40.4	0.3	5.9	78.9	177.3	98.4	27.6	43
3	0.0	88.3	28.8	1.7	3.3 3.0	40.6	0.2	7.5 7.6	82.2	170.4	88.3	29.1 32.6	43
4	0.0	91.4	32.2	2.1		41.1	0.3	7.6	86.4	177.7	91.4	32.6	44
15 16	0.0 0.0	96.5 88.5	30.9 20.9	2.0 2.1	3.2 3.0	42.4 41.8	0.3 0.4	7.3 6.2	86.1 74.3	182.6 _ 162.8	96.5 88.5	31.2 21.2	45 45
17	0.0	94.7	21.6	2.3	2.8	41.6	0.2	6.7	75.2	R 170.0	94.7	22.0	44
18	0.0	104.7	27.2	3.0	2.5 2.3	43.5	(s)	R 6.5	R 82.7 R 77.4	197 /	104.7	27.5	46
19	0.0	97.9	23.9	2.7	2.3	42.6	0.1	5.8 R 6.7	н 77.4 R 68.4	R 175.3	97.9	24.2	46
20 21	0.0 0.0	101.0 105.5	21.9 R 27.4	2.5 2.5	1.7 1.5	35.6 38.7	(s) 0.1	6.9	R 77.0	R 169.4 R 182.5	101.0 105.5	22.2 R 27.6	38 41
22	0.0	93.8	28.0	2.5	2.1	39.5	0.1	7.0	79.0	172.8	93.8	28.2	42.

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Rhode Island (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0 0.0	R (s)	2.9	NA NA	NA NA	NA NA	NA NA	2.9	0.0 0.0	NA NA	NA NA	R 2.9 R 3.5 R 5.2 R 4.8	R -1.4 R 10.1	0.0 0.0	R 184.1 R 169.6 R 217.6
1970	0.0	(s)	3.5 5.2 4.8	NA	NA	NA	NA	3.5 5.2	0.0	NA	NA	R 5.2	R 10.1 R 19.3 R 24.9	0.0	R 217.6
1971	0.0	(s) R (s)	4.8	NA	NA	NA	NA	4.8	0.0	NA	NA	R 4.8	R 24.9	0.0	n 230.1
1972 1973	0.0 0.0	(S)	4.9 5.1	NA NA	NA NA	NA NA	NA NA	4.9 5.1	0.0 0.0	NA NA	NA NA	4.9 5.1	R 29.8 R 34.5	0.0 0.0	R 231.3 R 226.5
1973 1974	0.0	(s)	5.1 5.0	NA	NA	NA	NA	5.1 5.0	0.0	NA	NA NA	5.1 5.0	R 34.5 R 31.9 R 36.3	0.0	R 226.5 R 209.8 R 200.8 R 210.3 R 219.2
1975	0.0	(s)	4.0 4.7 5.3 6.5	NA NA	NA	NA	NA NA	4.0	0.0	NA	NA	R 4.0	H 36.3	0.0	H 200.8
1976 1977	0.0 0.0	(S)	4.7 5.3	NA NA	NA NA	NA NA	NA NA	4.7 5.3	0.0 0.0	NA NA	NA NA	4.7 5.3	R 44.1 R 44.7	0.0 0.0	R 210.3
1978	0.0	(s)	6.5	NA	NA	NA	NA	6.5	0.0	NA	NA	5.3 R 6.5	R 45.6	0.0	R 207.8
1979	0.0	(s)	7.1 7.3 6.6	NA	NA	NA	NA	71	0.0	NA	NA	7.1 7.3 6.6	H 44.7 R 45.6 R 46.1 R 42.6 R 42.6 R 45.2 R 45.6 R 46.8	0.0	R 207.8 R 196.5 R 180.8 R 170.8
1980 1981	0.0 0.0	(s)	7.3 6.6	NA (s)	NA NA	NA NA	NA 0.0	7.3 6.6	0.0 0.0	NA NA	NA NA	7.3 6.6	R 42.6	0.0 0.0	<sup>n</sup> 180.8 R 170.8
1982	0.0	(s)	6.0	(s) (s)	NA	NA	0.0	6.0	0.0	NA NA	NA	H 6.0	R 45.2	0.0	R 169.7
1983	0.0	(s)	7.4 4.9	0.0	NA	NA	0.0	7.4 4.9	0.0	NA	0.0	7.4 4.9	R 45.6	0.0	R 169.7 R 175.2 R 186.8 R 199.5
1984 1985	0.0 0.0	(s) 0.0	4.9 5.1	0.0 0.0	NA NA	NA NA	0.0 0.0	4.9 5.1	0.0 0.0	0.0 0.0	0.0 0.0	4.9 5.1	R 46.8	0.0 1.4	n 186.8
1986	0.0	0.0	3.1 4.7	0.0	NA NA	NA NA	0.0	4.7	0.0	0.0	0.0	47	R 48 2	1.4 (s)	R 201 1
1987	0.0	0.0	4.7 3.3	0.0	NA	NA	0.0	3.3	0.0	0.0	0.0	3.3 3.5	R 50.0	(s) (s) 2.3	R 201.1 R 211.4
1988	0.0	0.0 R (s)	3.5	0.0	NA	NA	0.0	3.5	0.0	0.0	0.0	3.5	H 52.2	2.3	R 219.4
1989 1990	0.0 0.0	''(S) R (s)	3.7 4.4	0.0 0.0	NA NA	NA NA	0.0 0.0	3.7 4.4	0.0 0.0	(s) (s)	0.0 0.0	3.8 R 4.4 R 4.5	R 48.2 R 50.0 R 52.2 R 59.9 R 62.6 R 38.3	0.3 0.1	R 212.0 R 212.2 R 218.4 R 245.9
1991	0.0	R (s) R (s)	4.4 4.7	0.0	NA	NA	0.0	4.4 4.7	0.0	(s)	0.0	R 4.5	R 38.3	1.8	R 218.4
1992	0.0	R (s) R (s)	4.7	0.0	NA	NA	0.0	4.7	0.0	(s)	0.0	4.8 R 5.1 R 5.0 R 5.0		3.1	R 245.9
1993 1994	0.0 0.0	n (s)	5.0 4.9	0.0 0.0	NA NA	NA NA	0.0 0.0	5.0 4.9	0.0 0.0	(s) (s)	0.0 0.0	75.1 R 5.0	R 17.2 R 15.2 R 17.8	3.7 4.0	R 202.1 R 240.8
1995	0.0	R (s) R (s)	4.9	0.0	NA	NA	0.0	4 9	0.0	(s)	0.0	R 5.0	R 17.8	4.4	R 229.6
1996	0.0	R (s)	4.9 5.4	0.0	NA	NA	0.0	5.4 4.2	0.0	(s)	0.0 0.0	H 5.5	-13.9	4.5	R 229.6 220.1 R 217.8
1997 1998	0.0 0.0	R (s) R (s)	4.2 4.1	0.0 0.0	NA NA	NA NA	0.0 0.0	4.2 4.1	0.0 0.0	(s)	0.0 0.0	4.3 R 4.1	-15.1 R -13.9	5.8 6.0	R 217.8 R 226.6
1999	0.0	R (s)	4.1	0.0	NA NA	NA NA	0.0	4.1		(S)	0.0	4.1	-23	6.0 6.6	226.6
2000	0.0	(s)	4.3 4.4	0.0	NA	NA	0.0	4.3 4.4	(s) (s)	(s)	0.0 0.0	4.4 4.5	-2.3 R 6.7	6.6 5.4	226.8 R 205.6
2001 2002	0.0	(s)	3.8	0.0	(s)	NA	0.0	3.8 3.7	(s)	(s)	0.0 0.0	3.9 3.7	-0.7 B 40.5	2.6	R 204.1 R 203.3
2002	0.0 0.0	R (S)	3.6	(s) (s) 0.7	(s) (s)	NA NA	0.0 0.0	3.7	(s) (s)	(S)	0.0	3.7	-0.7 R 10.5 R 30.2 R 37.0	1.1 0.4	R 217 8
2003 2004	0.0	R (s)	3.7 3.8	0.7	(s)	NA	0.0	4.5	(s)	(s)	0.0 0.0	4.5	R 37.0	1.0	R 215.4
2005	0.0	H (s)	0.8	1.0	(s)	NA	0.0	1.8	(s)	_ (s)	0.0 0.0	1.9	R 26.2	1.2	R 209.0
2006 2007	0.0 0.0	R (s)	0.8 2.5 2.7 2.8	2.8 3.6	(s)	NA NA	0.0 0.0	4.5 1.8 5.3 6.3 6.2 7.3 7.0	(s)	R (s) R (s)	0.0	3.8 4.5 1.9 5.4 R 6.3	R 26.2 R 24.4 R 12.6 R 4.9	1.1 1.4	R 217.8 R 215.4 R 209.0 R 199.9 R 197.8
2008	0.0	(s)	2.8	3.3	(s)	NA	(s)	6.2	(s)		0.0	6.3	R 4.9	2.1	
2009 2010	0.0	(s)	3.4 3.6	3.8 3.4	(s)	NA	(s) (s) (s)	7.3	(s)	H (a)	0.0 (s) (s) (s)	7.4 R 7.1 R 6.8 R 5.9 R 6.0	-1.6 R 2.1	2.5 1.6	R 194.7
2010 2011	0.0 0.0	(s) R (s)	3.6	3.4 3.2	(s) 0.1	NA 0.0	(s)	7.0 6.6	(s) 0.1	R (s) 0.1	(s)	H 7.1	<sup>H</sup> 2.1 -8.3	1.6	H 195.2
2011	0.0	·· (S)	3.3 2.7	3.2	0.1	0.0	(s) (s) (s)	5.7	0.1	0.1	(S)	R 5 9	-o.3 0.1	2.1 0.0	R 183 2
2013	0.0	(s)	2.4	3.1	0.4	0.0	(s)	5.8	0.1	0.1 P 0.1	_ (s)	R 6.0	R 18.5	0.5	R 195.5
2014	0.0	(s)	4.0	3.2	0.4	0.0	(s)	7.5	0.1	R 0.1 R 0.1	(s) R (s) R (s) R (s)	R 7.7 R 8.2	0.1 R 18.5 R 16.3 R 10.4	0.6	R 194.7 R 195.2 R 185.3 R 183.2 R 195.5 R 202.3 R 201.8 R 183.7
2015 2016	0.0 0.0	(S)	4.3 3.8	3.3 3.2	0.4 0.5	0.0 0.0	(s)	8.0 7.5	0.1 0.1	Rno	R (S)	R78	H 126	0.6 0.5	R 183 7
2017	0.0	(s)	3.7 3.6	3.2	0.5	0.0	(s) (s) (s)	7.4	0.1	R 0.3 R 0.5	n 0.5	R 8.3 R 8.4	H 2.2	0.7	101.1
2018	0.0	(s)	3.6	3.3	0.4	0.0	(s)	7.3	0.1	R 0.5	B 0.5	R 8.4	R -2.2	0.5	H 194 1
2019 2020	0.0 0.0	(s)	4.2 R 4.2	3.3 2.8	0.2 0.3	0.0 0.0	(s) (s)	7.8 R 7.3	0.1 0.1	R 0.8 R 1.7	R 0.7 R 0.7	R 9.4 R 9.8	R 3.2 R -7.3	0.0 0.0	R 187.9 R 171.9
2021	0.0	(s)	R 3.4	3.1	0.3	0.0	(S)	R 6.7	0.1	R 2.3	R 0.6	R 9.7	H-10.3	0.0	R 181.9
2021 2022	0.0	(s)	3.7	3.1	0.3 0.2	0.0	(s)	7.0	0.1	3.1	0.7	10.9	2.9	0.0	186.6

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Rhode Island

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Yea	Thousand short tons	Billion cubic feet			1	Thousand barrels	<b>3</b>			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total h,m
1960	25	11	8,093	207	38	5,975	9,114	2,016	25,443	1					1,911			
1970	10	23	8,575	375	137	8,009	6,736	1,868	25,700	0					3,927			
1980	7	26	5,004	293	348	8,416	891	1,671	16,625	0					5,131			
1990	5	30	5,267	501	776	8,765	1,084	1,923	18,316	0					6,419			
2000 2005	2	40 37	5,420	447 433	1,283	9,468	681	478 568	17,776	0					7,301			
2005	3	34	6,150 5.304	433 416	825 593	9,216 9,854	727 478	532	17,919 17,176	0	==				8,049 7,799			
2007	2	37	5,744	417	335	9,730	411	197	16,835	0					8.013			
2008	0	36	4,995	408	300	9,727	242	1,437	17,108	0					7,819			
2009	0	37	5,567	402	694	9,446	547	963	17,619	0					7,618			
2010	0	37	5,402	356	621	9,378	232	1,080	17,069	0					7,799			
2011	0	36	5,002	396	675	8,837	179	824	15,913	0					7,732			
2012	0	35	4,748	382	607	8,566	49	899	15,252	0					7,708			
2013	0	39 44	4,992	448 554	584 524	8,629	37	1,147 1,171	15,836	0					7,781			
2014 2015	0	44	5,549 5,280	526	524 561	8,742 9,031	46 47	1,171	16,585 16,559	0					7,643 7,665			
2016	0	39	3,641	557	525	8,897	64	R 945	R 14,630	0					7,524			
2017	0	41	3,740	596	492	8,875	26	R 1,045	R 14,774	0					7,385			
2018	0	45	4,670	779	439	9,261	4	R 1,006	R 16,158	0					7,583			
2019	0	44	4,193	691	402	9,098	10	R 910	R 15,304	0					7,350			
2020	0	40	3,855	646	303	7,612	2	R 1,029	R 13,447	0					7,352			
2021	0	41	R 4,772	659	266	8,266	13	R 1,074	R 15,050	0					7,398			
2022	0	41	4,790	651	370	8,437	13	1,086	15,346	0					7,576			
									Trillion	Btu								
1960	0.6	11.9	47.1	0.8	0.2	31.4	57.3	12.2	149.1	(s)	2.9	NA	NA	NA	6.5	R 170.9	R 13.2	R 184.1
1970	0.2	23.3	49.9	1.4	0.8	42.1	42.4	11.5	148.0	0.0	5.2		NA	NA	13.4		R 27.4	R 217.6
1980	0.2	26.5	29.1	1.1	2.0	44.2	5.6	10.4	92.4	0.0	7.3		NA	NA	17.5		R 37.2	R 180.8
1990	0.1	31.1	30.7	1.9	4.4	46.0	6.8	12.5	102.3	0.0	3.4			(s)	21.9		R 53.5	R <sub>212.2</sub>
2000	0.1	41.9	31.5	1.7	7.3	49.2	4.3	2.9	96.9	0.0	3.0			(s)	24.9		R 38.7	R 205.6
2005	0.1	37.6	35.8	1.6	4.7 3.4	47.9	4.6	3.6	98.1	0.0	0.8			(s)	27.5		R 45.0 R 44.7	R 209.0 R 199.9
2006 2007	(s) (s)	34.8 37.5	30.8 33.2	1.5 1.6	1.9	51.1 50.0	3.0 2.6	3.3 1.1	93.1 90.4	0.0	0.7 0.7		(s) (s)	R (s) R (s)	26.6 27.3	155.3 156.2	R 41.6	R 197.8
2008	0.0	37.2	28.9	1.5	1.7	49.7	1.5	9.4	92.7	0.0	0.8		(s)	R (s)	26.7	157.4	R 36.6	R 194.0
2009	0.0	38.3	32.2	1.5	3.9	48.1	3.4	6.3	95.4	0.0	1.6		(s)	R (s)	26.0	R 161.3	33.5	194.8
2010	0.0	37.8	31.2	1.4	3.5	47.5	1.5	7.1	92.1	0.0	1.8		(s)	R (s)	26.6	158.4	R 36.8	<sup>R</sup> 195.2
2011	0.0	37.1	28.9	1.5	3.8	44.7	1.1	5.4	85.5	0.0	1.8	(s)	0.1	0.1	26.4	150.9	34.5	R 185.4
2012	0.0	36.0	27.4	1.5	3.4	43.4	0.3	5.9	81.8	0.0	1.5		0.1	0.1	26.3		37.6	R 183.3
2013	0.0	40.4	28.8	1.7	3.3	43.7	0.2	7.5	85.2	0.0	1.9		0.1	0.1	26.5		R 41.2	R 195.4
2014	0.0	45.3	32.0	2.1	3.0	44.2	0.3	7.6	89.2	0.0	1.9		0.1	0.1 R 0.1	26.1	R 162.7 R 162.5	R 39.6 R 39.2	R 202.3 R 201.7
2015 2016	0.0 0.0	45.1 40.3	30.4 21.0	2.0 2.1	3.2 3.0	45.7 45.0	0.3 0.4	7.3 6.2	88.9 77.6	0.0	2.2 1.8		0.1 0.1	" 0.1 R 0.1	26.2 25.7	R 145.6	R 38.0	R 183.6
2017	0.0	42.5	21.5	2.3	2.8	44.8	0.4	6.7	78.3	0.0	1.7		0.1	R 0.2	25.2	R 148.1	R 32.8	R 180.9
2018	0.0	45.9	26.9	3.0	2.5	46.8	(s)	R 6.5	R 85.7	0.0	1.6		0.1	R 0.4	25.9	R 159.5	R 34.6	R 194.1
2019	0.0	44.9	24.1	2.7	2.3	46.0	0.1	5.8	80.9	0.0	2.2	(s)	0.1	R 0.7	25.1	R 153.8	R 34.1	<sup>R</sup> 188.0
2020	0.0	40.9	22.2	2.5	1.7	38.5	(s)	R 6.7	R 71.5	0.0	R 1.4	(s)	0.1	B 1.1	25.1	R 140.0	R 32.0	R 172.0
2021	0.0	41.8	R 27.5	2.5	1.5	41.7	0.1	6.9	R 80.3	0.0	<sup>R</sup> 1.3	(s)	0.1	R <sub>1.4</sub>	25.2		R 31.9	R 181.9
2022	0.0	42.1	27.6	2.5	2.1	42.6	0.1	7.0	81.9	0.0	1.5	(s)	0.1	1.8	25.9	153.3	33.5	186.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

<sup>989.</sup>i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Rhode Island

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	12	7	5,507	117	770	6,394				620			
1965 1970	7	9	4,828 5,835	105 124	534 335	5,467 6,294				871			
1970	4	12	5,835		335	6,294				1,390			
1975 1980 1985	1	13	5,395 3,297 3,818	116	87 54 131	5,598 3,441 4,167				1,684 1,840			
1985	1	14 15	3,297	90 219	131	4 167				1,971			
1990	i	18	3,035	217	38	3,290				2,376			
1995	(s)	18 17	3,035 3,466	222	38 27	3,290 3,714				2,376 2,472			
2000	(s)	19	3 262	218	65	3 544				2,664			
2005 2006	(s) (s)	19 17	3,733 2,870	182 179	59 40	3,974 3,088			==	3,171 3,008			
2007	(s)	18	2,963	209	16	3,188				3,132			
2008	0	18	2.848	225	11	3.083				3.043			
2009	Ö	18	2,848 3,045 2,930	225 220 189	24	3,083 3,289 3,137				3,043 2,937			
2010	0	17	2,930	189	18	3,137				3,118			
2011	0	17	2,698 2,659	209	13	2,920 2,852				3,129 3,121			
2012 2013	0	16 18	2,659	187	6	2,852				3,121			
2013	0	20	2,010	209	8	3,031				3,165 3,070			
2015	ŏ	20	2,816 2,743 2,997	209 296 276	5	3,031 3,047 3,279				3,136			
2016	0	17	1.892	308	5	2.205				3.082			
2017	0	18	1,795	317	3	2,115				3,028			
2018	0	21	2,502 2,054	480	3	2,986				3,124			
2019 2020	0	20 18	2,054 1,865	422 404	3 2	2,479 _ 2,272				2,983 3,148			
2021	0	19	2,366	431	4	R 2,800				3,132			
2022	Ö	18	2,346	424	3	2,773				3,168			
			·			-	Trillion Btu						
1960	0.3	6.9	32.1	0.4	4.4	36.9	1.0	NΔ	NA	2.1	47.3	R 4.3	R 51 6
1965	0.3 0.2	9.3	28.1	0.4	3.0	31.6	0.9	NA NA	NA NA	3.0	45.0	R 5.8 R 9.7	R 50.8
1970	0.1	12.2	34.0	0.5	1.9	36.4 32.4	1.2 1.3	NA	NA	4.7 5.7	54.6	_R 9.7	R 64.3
1975	(s)	13.2	31.4	0.4	0.5	32.4	1.3	NA	NA	5.7	52.6	R 11.7	R 51.6 R 50.8 R 64.3 R 64.4 R 60.7 R 64.6 R 67.9 R 64.8
1980	(s)	14.3 15.5	19.2	0.3	0.3	19.9	7.1	NA	NA	6.3	47.4	H 13.4	H 60.7
1985 1990	(s) (s)	15.5 18.2	22.2 17.7	0.8 0.8	0.7 0.2	23.8 18.7	5.0	NA 0.0	NA (a)	6.7 8.1	51.0 48.1	H 13.7	11 64.6 B 67.0
1995	(s)	17.8	20.2	0.8	0.2	21.2	3.0 3.3	0.0	(s) (s) (s)	8.4	50.8	R 14 0	R 64 8
2000	(s)	19.5	19.0	0.8	0.4	20.2	2.4	(s)	(s)	9.1	51.2	R 14.1	65.4
2005	(s)	19.5	21.7	0.7	0.3	22.8	0.6	(s)	(s)	10.8	53.7	R 13.4 R 13.7 R 19.8 R 14.0 R 14.1 R 17.7	R 71.4
2006 2007	(s)	17.2	16.7	0.7	0.2 0.1	17.6	0.5 0.6	(s)	(s)	10.3 10.7	45.6	R 17.2 R 16.2 R 14.3	R 62.8 R 63.7 R 60.9
2007	(s) 0.0	18.1	17.1	0.8		18.0 17.4	0.6	(s)	(s)	10.7	47.5	n 16.2	n 63.7
2008 2009	0.0	18.1 18.3	16.5 17.6	0.9 0.8	0.1 0.1	17.4	0.7	(S) (S)	(s) (s)	10.4	46.6 48.4	114.3	11 60.9
2010	0.0	17.3	16.9	0.7	0.1	17.7	1.4 1.5		(s)	10.0 10.6	47.3	12.9 R 14.7	61.3 R 62.0
2011	0.0	17.3 16.4	15.6	0.8	0.1	16.4	1.5	(s) 0.1	(s)	10.7	46.0	14.0	60.0
2012	0.0	16.4	15.3	0.7	(s)	16.1	1.5 1.2 1.6	0.1	(s) R (s)	10.7 10.8	44.4 R 48.3	_ 15.2	R 59.6
2013	0.0	18.8	16.2	0.8	(s)	17.1	1.6	0.1	H (s)	10.8	H 48.3	15.2 R 16.8 R 15.9	H 65.1
2014	0.0	20.3	15.8	1.1	(s)	17.0	1.6	0.1	R (s) R (s) R (s) R (s)	10.5	49.5	H 15.9	60.0 R 59.6 R 65.1 R 65.4 R 67.6 R 57.5 R 55.9
2015 2016	0.0 0.0	20.6 17.7	17.3 10.9	1.1 1.2	(s) (s)	18.4 12.1	1.8	0.1 0.1	" (S) R 0 1	10.7 10.5 10.3	51.6 R 41.9 R 42.4	R 16.0 R 15.6 R 13.5	" 67.6 R 57.5
2016	0.0	17.7	10.3	1.2	(8)	11.6	1.4 1.3	0.1	H 0.1	10.5	R 42 4	R 13.5	R 55 9
2018	0.0	21.1	14.4	1.8	(s)	16.3	1.2	0.1	R 0.2	10.7	R 49.6	R 14.2	R 63.8
2019	0.0	20.5	11.8	1.6	(s)	13.5	1.3 1.2 1.7	0.1	R 0.2 R 0.2	10.2	R 49.6 R 46.2	R 14.2 R 13.9	R 63.8 R 60.0
2020	0.0	18.8	10.7	1.6	(s) (s)	12.3 15.3	R 1.0	0.1 0.1	R 0.3	10.7 10.7	R 43.2 R 46.5	R 13.7 R 13.5	R 56.9
2021 2022	0.0	19.1	13.6	1.7	(s) (s)	15.3 15.2	R 1.0 R 0.9 1.2	0.1 0.1	R 0.3 R 0.4 0.5	10.7 10.8	<sup>H</sup> 46.5 46.5	H 13.5 14.0	R 56.9 R 60.0 60.5
CUZZ	0.0	18.8	13.5	1.6	(8)	15.2	1.2	U.	U.5	10.8	40.5	14 ()	00.5

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Rhode Island

					Pet	troleum			Uhrdun	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thous	and barrels	1		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal f	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	8	2	1 001	50	17	26	1.007	2,720	NA NA			NA NA	376			
1965	6	3	1,381 1,211	58 52 62	12	32 36	1,237 634	1,942	NA			NA	546			
1970 1975	3	5 4	1,464 1,353	62 58	7	36 41	971 602	2,540 2,056	NA NA			NA NA	1,285 1,576			
1980	2	7	617	58 45	2 0	49	602 180	2,056 891	NA			NA	1,892			
1985 1990	4 4	8 8	493 799	109 108	4 2	32 39	552 597	1,190 1,545	NA 0			NA (s)	2,159 2,688			
1995	3	12	741	111	30	10	499	1,391	Ö			(s)	2,790			
2000 2005	2	13 11	629 686	109 105	19 9	10 12	419 437	1,185 1,249	0			(s) (s)	3,243 3,628			
2006	2	10	609	105 75	10	10	256	961	Ö			2	3,599			
2007 2008	1	11 11	688 577	89 92	1	10 10	234 162	1,021 843	0			2	3,710 3,700			 
2009	ő	11	853	90	(s)	10	150	1,104	Ö			2	3,691			
2010 2011	0	10 11	692 528	84 98	(s)	10 10	63	850 680	0			2 5	3,693 3,660			
2012	ő	10	470	83	(s)	10	44 25	587	0		==	10	3,640			
2013 2014	0	12 13	545 849	101 114	(s) (s)	10 10	25 33	682 1,006	0			10 10	3,667 3,658	==		
2014	0	12	542	109	(s)	200	30	881	0			11	3,705	==		
2016	0	11	381 356	111	`1	201	24	717	0			16	3,651			
2017 2018	0	11 13	381	105 200	(s) 1	204 208	Ö	667 790	0			27 51	3,603 3,698			 
2019	0	12	300	233	1	209	(s)	744	0			122	3,644			
2020 2021	0	11 11	204 477	219 200	1	211 213	1 (s)	637 891	0			220 286	3,551 3,605			
2022	Ŏ	11	467	178	(s)	216	(s) (s)	861	ő			393	3,746			
								Tri	lion Btu							
1960	0.2	1.8	8.0	0.2 0.2	0.1	0.1	7.8	16.3	NA	(s)	NA	NA	1.3	19.5	R 2.6 R 3.7	R 22.1 R 19.8
1965 1970	0.1 0.1	2.7 5.2	7.1 8.5	0.2	0.1 (s)	0.2 0.2	4.0 6.1	11.5 15.1	NA NA	(s) (s)	NA NA	NA NA	1.9 4.4	16.2 24.8	Ran	H 33.7
1975	0.1	4.3	7.9	0.2	(s)	0.2	3.8	12.1	NA	(s)	NA	NA	5.4	21.9	R 11.0	R 32 q
1980 1985	0.1 0.1	6.9 7.8	3.6 2.9	0.2 0.4	0.0 (s)	0.3 0.2	1.1 3.5	5.2 7.0	NA NA	0.2 0.1	NA NA	NA NA	6.5 7.4	18.7 22.3	R 13.7 R 15.0	R 32.4 R 37.3
1985 1990	0.1	8.3	2.9 4.7	0.4	(s)	0.2	3.5 3.8	9.0	0.0	0.3	0.0	(s)	9.2	26.9	R 22.4 R 15.9 R 17.2	RAGR
1995 2000	0.1	12.4 13.6	4.3 3.7	0.4 0.4	0.2 0.1	0.1 0.1	3.1 2.6	8.1 6.9	0.0 0.0	0.5 0.4	0.0 0.0	(s) (s)	9.5 11.1	30.5 32.0	n 15.9 R 17.2	R 46.4 R 49.2
2005	(s) 0.1	11.3	4.0	0.4	0.1	0.1	2.7	7.3	0.0	0.1	0.0	(s)	12.4	31.1	H 20.3	R 51.4
2006	(s)	10.1 11.5	3.5 4.0	0.3 0.3	0.1	0.1 0.1	1.6 1.5	5.5 5.8	0.0 0.0	0.1 0.1	0.0 0.0	(s) (s)	12.3	28.1 30.2	R 20.6	R 48.7 R 49.4
2007 2008	(s) 0.0	11.5	3.3	0.3	(s) (s)	0.1	1.0	4.8	0.0	0.1	0.0	(S)	12.7 12.6	28.6	R 19.2 R 17.3	R 45.9
2009	0.0	11.0	4.9	0.3	(s)	0.1	0.9	6.3	0.0	0.2	0.0	(s)	12.6	H 30.0	16.2	46.3
2010 2011	0.0 0.0	10.7 11.1	4.0 3.0	0.3 0.4	(s) (s)	0.1 0.1	0.4 0.3	4.8 3.8	0.0 0.0	0.2 0.2	0.0 0.0	(s) R (s)	12.6 12.5	28.3 R 27.5	R 17.4 _ 16.3	R 45.7 43.9
2012	0.0	10.4	2.7	0.3	(s)	(s)	0.2	3.2	0.0	0.2	0.0	R (s) R (s)	12.4	H 26.2	R 177	R 44 0
2013 2014	0.0 0.0	12.0 13.6	3.1 4.9	0.4 0.4	(s) (s)	0.1 (s)	0.2 0.2	3.7 5.6	0.0 0.0	0.2 0.2	0.0 0.0	R (s)	12.5 12.5	28.5 R 31.9	R 19.4 R 19.0	R 47.9 R 50.8
2015	0.0	12.4	3.1	0.4	(s)	1.0	0.2	4.7	0.0	0.3	0.0	R (s)	12.6	H 30.1	H 18.9	n 49.0
2016 2017	0.0 0.0	11.1 11.7	2.2 2.0	0.4 0.4	(s)	1.0 1.0	0.2 (s)	3.8 3.5	0.0 0.0	0.2 0.2	0.0 0.0	0.1 R 0.1	12.5 12.3	R 27.6 R 27.8	R 18.4 R 16.0	R 46.1 R 43.8
2018	0.0	13.1	2.2	0.8	(s)	1.0	(s) 0.0	4.0	0.0	0.2	0.0	R 0.2	12.6	R 30.1	<sup>rt</sup> 16.9	n 17 n
2019 2020	0.0 0.0	12.8 11.1	1.7 1.2	0.9 0.8	(s)	1.1 1.1	(s)	3.7 3.1	0.0 0.0	0.3 0.2	0.0 0.0	R 0.4 R 0.8	12.4 12.1	R 29.6 R 27.4	R 16.9 R 15.5	R 46.5 R 42.8
2021	0.0	11.6	2.7	0.8	(s)	1.1	(s)	4.6	0.0	0.2	0.0	R 1.0	12.3	R 29.7	R 15.5	H 45.2
2022	0.0	11.5	2.7	0.7	(s)	1.1	(s)	4.5	0.0	0.2	0.0	1.3	12.8	30.3	16.5	46.9
		ental gassaus fus										dorivad but about			o and Total For 1	

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Rhode Island

					Petrol	eum			Usadaa	Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	l barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use f,k	energy losses	Total f,k
1960	4	3	367 431	31 61	6 5	4,051 2,135	1,107 1,403	5,561	.1				NA	916			
1965 1970	4 2	6	431 672	162	3	3,246	1,403	4,036 5,384	(s)				NA NA				
1975	2	6	440	297	3	1,916	1,514	4,170	Ö				NA	1,191			
1980 1985	4	5 5	415 275	149 150	2 26	654 973	1,279	2,499 4,472	0				NA NA	1,399 1,300			
1990	(s)	4	279	156	35	453	3,047 1,770	2,692	0	==			(s)	1,354	==		
1995	0	35	280	119	54	372	1,072	1,898	0				(s)	1,374			
2000 2005	0	8	165 204	118 140	33 105	257 291	308 426	881 1,166	0				(s) (s)	1,394 1,250			
2006	ŏ	6	216	157	115	217	400	1.105	ŏ				(s)	1,191			
2007 2008	0	7	164 96	117 85	154 156	175 77	97 1,356	706 1,770	0				(s)	1,171 1,075			
2008	0	8	162	85	148	229	880	1,770	0	==			(s) (s)	990			
2010	0	8	149	82	113	87	1,000	1,431	0				(s)	961			
2011 2012	0	7 8	124 102	88 111	110 116	94 24	753 842	1,170	0				(s)	916			
2013	ő	8	86	137	121	5	842 1,088	1,194 1,437	Ö				(s) (s)	923 923			
2014	0	8	115	142	118	10 17	1,100	1,485 1.412	0				(s)	887			
2015 2016	0	9	95 117	138 136	119 120	38	1,044 R 883	R 1 293	0				0	799 764			
2017	Ö	9	163	174	122	14	R 0.07	R 1 459	Ö				ő	726			
2018 2019	0	9	192 183	87 26	124 124	2 2	R 947 R 854	R 1,352 R 1,189	0				0	700			
2020	0	8	196	23	124	1	R 981	R 1 326	0				(s)	635			
2021	0	8	148	27	125	6	R 993	H 1,299	0				1	644			
2022	0	8	150	48	129	6	1,006	1,340	0 Trillion Bt				3	639			
4000	0.4	2.0	0.4	0.4	(-)	05.5	7.4	04.0		-	N/A	N/A	N.1.0	0.1	40.0	R 6.3	R 49.1
1960 1965	0.1 0.1	3.0 4.4	2.1 2.5	0.1 0.2	(s) (s)	25.5 13.4	7.1 8.9	34.8 25.1	(s) (s)	1.8 2.6	NA NA	NA NA	NA NA		42.8 36.5	R 8.5	R 45.1
1970	(s)	5.9	3.9	0.6	(s)	20.4	8.3	33.2	Ô.Ó	4.0	NA	NA	NA	4.3	47.5	Roo	B E G O
1975 1980	0.1 0.1	5.9 5.2	2.6 2.4	1.0 0.5	(s) (s)	12.0 4.1	9.9 8.3	25.5 15.3	0.0 0.0	2.7 0.0	NA NA	NA NA	NA NA	4.1 4.8	38.3 25.4	R 8.3 R_10.2	R 46.6 R 35.5
1985	0.1	4.8	1.6	0.5	0.1	6.1	20.2	28.5	0.0	0.0	0.0	NA NA	NA NA		37.8	Ran	H 46 Q
1990	(s) 0.0	4.5	1.6	0.5	0.2	2.8	11.6	16.8	0.0	0.0	0.0	0.0	(s)	4.6		H 11 3	H 37 2
1995 2000	0.0	36.0 8.4	1.6 1.0	0.4 0.4	0.3 0.2	2.3 1.6	7.1 2.0	11.7 5.1	0.0	0.2 0.2	0.0 0.0	0.0 0.0	(s) (s)	4.7 4.8	52.6 18.5	R 7.8	R 60.4
2005	0.0	6.0	1.2	0.5	0.5	1.8	2.7	6.8	0.0	0.1	0.0	0.0	(s)	4.3	17.1	7.4 R 7.0	25.9 R 24.1 R 23.8
2006 2007	0.0 0.0	6.5 6.9	1.3 0.9	0.5 0.4	0.6 0.8	1.4 1.1	2.6 0.6	6.3 3.8	0.0 0.0	0.1 0.1	0.0 0.0	0.0 0.0	(s) (s)	4.1 4.0	17.0 14.7	R 6.8 R 6.1	H 23.8 R 20.8
2007	0.0	6.9	0.6	0.4	0.8	0.5	8.9	11.0	0.0	0.1	(s)	0.0	(s)	3.7	21.7	Rso	R 26.7
2009	0.0	7.9	0.9	0.3	0.8	1.4	5.8	9.2	0.0	0.1	(s)	0.0	(s)	3.4	20.5	R 4.3	24.9
2010 2011	0.0 0.0	8.2 7.6	0.9 0.7	0.3 0.3	0.6 0.6	0.5 0.6	6.6 5.0	8.9 7.2	0.0 0.0	0.1 0.1	(s)	0.0 0.0	(s) (s)	3.3 3.1	20.5 18.0	R 4.5 4.1	25.0 22.1
2012	0.0	8.1	0.6	0.4	0.6	0.0	5.5	7.3	0.0	0.1	(s)	0.0	(s)	3.2	18.6	15	22.1
2013	0.0	8.4	0.5	0.5	0.6	(s)	7.1	8.8	0.0	0.1	(s)	0.0	(s)	3.1	20.5	Ran	R 25 4
2014 2015	0.0 0.0	8.2 8.9	0.7 0.5	0.5 0.5	0.6 0.6	0.1 0.1	7.2 6.9	9.1 8.6	0.0	0.1 0.1	(s) (s)	0.0 0.0	(s) 0.0	3.0 2.7	20.5 20.4	R 4.6 R 4.1	R 25.1 R 24.4
2016	0.0	8.7	0.7	0.5	0.6	0.2	5.8	7.8 R 8.7	0.0	0.1	(s)	0.0	0.0	2.6	20.4 19.3	нза	H 23.2
2017 2018	0.0 0.0	8.8 9.1	0.9 1.1	0.7 0.3	0.6 0.6	0.1	R 6.4 6.1	H 8.7 8.2	0.0 0.0	0.1 0.2	(s)	0.0 0.0	0.0		20.1 R 20.0	R 3.2 3.4	R 23.3 R 23.3
2019	0.0	9.1	1.1	0.3	0.6	(s) (s)	5.5	7.3	0.0	0.2	(S)	0.0	0.0	2.4	18.9	Rag	R 22.2
2020	0.0	8.6	1.1	0.1	0.6	(s) (s)	R 6 4	8.2	0.0	0.2	(s)	0.0	(s)	2.2 2.2	R 19.2	R 2.8	R 21 9
2021 2022	0.0	8.7 8.6	0.9 0.9	0.1 0.2	0.6 0.7	(s) (s)	R 6.5 6.5	R 8.1 8.3	0.0	0.2 0.1	(s) (s)	0.0	(s) (s)	2.2 2.2	R 19.2 19.2	R 2.8 2.8	R 21.9 22.1
	0.0	0.0	5.5	J.Z	5.7	(3)	0.0	5.5	0.0	0.1	(3)	0.0	(3)	2.2	13.2	2.0	22.1

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Rhode Island

						Po	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	(s)	(s)	19	838	1	38	103	5,943	3,826	10,768	0			
1965 1970	(s) (s) (s)	(s) (s) (s)	63	393 604 788 675	4	38 49	69	5,943 6,455 7,970	2,637 2,519 329 58	9,669 11,482 10,685 9,794	0			
1970	(S) (S)	(S) (S)	148 285 269	788	28 27	137 271 348	69 77 57 70 64 72 68 73 62 60 62 57 52 56 49 53	7,970 8.929	329	10.685	0			
1975 1980	(s) 0	(s)	269	675	9	348	70	8,929 8,365	58	9,794	Ö			
1985	0	(s)	30 42 22 13 12 22 22	334 1,154	22 19 8	498 776	64 72	8,606 8,692	0 34	9,554 10,789	0			
1990 1995	ŏ	1	22	1.328		500	68	8,864	2	10.792	ŏ			
2000 2005	0	(s)	13	1,364 1,527	2	1,283	73	9,425 9,100	5	12 165	0			
2005	0	1	22	1,527	6 5	825 593	60	9,100	4	11,531 12,022 11,919	0			
2006 2007	Ō	1	22	1,609 1,930	3	593 335	62	9,729 9,565	2	11,919	Ö			
2008 2009	0	1	11 7	1,474 1,507	7 6	300 694 621 675 607	57 52	9,561 9,288	3 160	11,412 11,723	0			
2010	0	2	5	1,631	1	621	56	9,255	169 81	11,652	27			
2011	0	1	5	1,652	1	675	52	8,717	41	11.143	27			
2012	0	1	5	1,518	1	607 584	46 49	8,441 8,498	1	10,619 10,686	24 26			
2013 2014	ŏ	3	9	1,545 1,841	2	584 524 561	53	8,498 8,614	3	10,686 11,047	28			
2015	0	3	9	1.646	2	561	56	8,712	(s) 2	10,987	26			
2016 2017	0	3	9	1,251 1,425	3 (s)	525 492 439 402	48 46	8,577 8,549	11	10,415 10.533	27 28			
2018	ő	2	8	1,595 1,656	(s) 12	439	46	8,929	2	10,533 11,031 R 10,892	28 27			
2019 2020	0	2	8 6	1,656	10	402	44	8,765	7 0	H 10,892	27 18	 		
2021 2022	0	2	8	1,589 R 1,782 1,827	(s) (s) 1	303 266 370	48 46 46 44 38 R 42	7,276 7,929 8,092	7	9,213 R 10,060	18			==
2022	0	3	8	1,827	`í	370	45	8,092	7	10,373	23			
							Tri	llion Btu						
1960	(s) (s) (s) (s)	0.2	0.1	4.9	(s) (s) 0.1	0.2 0.3 0.8 1.5	0.6 0.4	31.2	24.1 16.6	61.1	0.0 0.0	61.3 53.9	0.0 0.0	61.3 53.9 63.3 57.0
1965 1970 1975	(s)	(s)	0.3 0.7	2.3 3.5 4.6	0.1	0.8	0.4	33.9 41.9	15.8	53.8 63.3 57.0	0.0	63.3	0.0 0.0 0.0	63.3
1975	(s)	0.1 (s) (s) 0.2	1.4	4.6	0.1	1.5	0.5 0.3	46.9	2.1	57.0	0.0	57.0	0.0	57.0
1980 1985	0.0 0.0	0.2 0.1	1.4 0.2	3.9	(s) 0.1	2.0 2.8 4.4 2.8 7.3 4.7 3.4	0.4	43.9 45.2	0.4 0.0	52.0 50.6	0.0 0.0	52.2 50.7	0.0 0.0	52.2 50.7 57.8 57.9
1990 1995	0.0	0.1 0.6	0.2	1.9 6.7 7.7	0.1	4.4	0.4 0.4 0.4	45.7 46.1	0.2	50.6 57.7 57.3	0.0 0.0	57.8 57.9	0.0	57.8
1995 2000	0.0 0.0	0.6 0.3	0.1	7.7 7.9	(s)	2.8	0.4 0.4	46.1	(s)	57.3	0.0 0.0	57.9 65.1	0.0	57.9
2000	0.0	0.8	0.1 0.1	7.9 8.9	(s) (s)	7.3 4.7	0.4	49.0 47.2	(s) 0.0	64.8 61.3	0.0	62.1	0.0 0.0	65.1 62.1
2005 2006	0.0 0.0	0.8 1.0	0.1	8.9 9.3	(s)	3.4	0.4	47.2 50.4	(s)	61.3 63.7 62.8	0.0	64.7	0.0	62.1 64.7
2007 2008	0.0 0.0	1.0 1.0	0.1 0.1	11.2 8.5	(s) (s)	1.9 1.7	0.4 0.3	49.2 48.8	(s) (s) 1.1 0.5	62.8 59.5	0.0 0.0	63.8 60.5	0.0 0.0	63.8
2009 2010	0.0	1.0		8.7	(s)	3.9	0.3 0.3	47.3 46.9	1.1	61.4	0.0	62.4 62.4	0.0	60.5 62.4 62.5
2010	0.0 0.0	1.0 1.6	(s) (s)	8.7 9.4	(s) (s)	3.5	0.3	46.9	0.5	60.7	0.1	62.4	0.0 0.1	62.5
2011	0.0	1.1 1.1	(s) (s)	9.5 8.8	(s) (s)	3.9 3.5 3.8 3.4 3.3 3.0 3.2	0.3 0.3 0.3 0.3 0.3	44.1 42.7	0.3	58.1 55.2	0.1 0.1	59.3 56.5	0.1 0.1	59.4 56.6
2012 2013	0.0 0.0	1.1 1.2 3.2 3.3	(s)	8.8 8.9	(s)	3.3	0.3	42.7 43.0	(s) (s)	55.2 55.6 57.6	0.1	56.5 56.9	0.1	56.6 57.0
2014	0.0	3.2	(s) (s)	10.6	(s)	3.0	0.3	43.6 44.1	(s) (s)	57.6	0.1	60.8	0.1	61.0
2015 2016	0.0 0.0	3.3 2.7	(S) (S)	9.5 7.2	(s) (s)	3.∠ 3.0	0.3	44.1 43.4		57.1 53.9	0.1 0.1	60.5 56.7	0.1 0.1	60.6 56.9
2017	0.0	2.7 3.0 2.5	(s)	7.2 8.2	(s)	2.8	0.3 0.3	43.4 43.2	(s) 0.1	53.9 54.6	0.1	56.7 57.7	0.1	56.9 57.8
2018 2019	0.0 0.0	2.5	(s) (s)	9.2	(s) (s)	3.0 2.8 2.5 2.3 1.7 1.5	0.3	45.1	(s)	57.2	0.1 0.1	59.8 59.1	0.1 0.1	59.9
2020	0.0	2.3	(s)	9.5 9.1 R 10.3	(S) (S)	1.7	0.3	44.3 36.8 40.0	(s) 0.0	47.9	0.1	50.3	0.1	50.4
2020 2021	0.0 0.0	2.6 2.3 2.4 3.2	(s)	R 10.3	(s) (s)	1.5	0.3 0.2 R 0.3 0.3	40.0	(s) (s)	56.5 47.9 R 52.3 54.0	0.1	50.3 R 54.7 57.2	0.1	59.3 50.4 R 54.8 57.3
2022	0.0	3.2	(s)	10.5	(s)	2.1	0.3	40.9	(s)	54.0	0.1	5/.2	0.1	57.3

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Rhode Island

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kild	owatthours	and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
1960	574	(s)	13	0	714	727	0	8		0	NA	NA	0	
1965 1970	574 403 0	(s) (s) 2	16 56 26 28	Ö	870	886 3,047 1,568 1,662	Ö	1		0	NA	NA	0	
1970		2	56	0	2,990 1,542 1,634	3,047	0	3		0	NA	NA	0	
1975 1980	0	(s) 2	26	0	1,542	1,568	0	3 1		0	NA NA	NA NA	0	
1985	0	3	20	0	708	728	0	0		0	NA 0	INA O	421	
1990	0			0	340	358	0	10		0	0	0	37	
1995	ŏ	9 36 48	24	ŏ	63	87	ŏ	, 9		ŏ	ŏ	ŏ	1,276 1,585 354 320 415	
1995 2000	0	48	39	0	0	39	0	5		0	0	0	1,585	
2005	0	44	27	0	0	27	0	7		0	0	0	354	
2006	0	43	25	0	0	25	0	6		0	0	0	320	
2007 2008	0	43 51 53 55 57	35	0	0	35	0	4 5		0	0	0	415 602	
2008	0	55 55	23	0	0	23	0	5		0	0	0	736	
2010	0	57	23	0	0	23	0	4		0	0	3	736 457	
2011	0	64	19 24 39 27 25 35 38 23 23 23 29 61	Ō	Ō	358 87 39 27 25 36 38 23 23 23 23 29 61	Ö	7		0	Ō	3	607	
2012	0	61	29	0	0	29	0	4		0	0	1	0	
2013	0	46 45 50 47	61	0	0	61	0	4		0	2	3	152	
2014	0	45	104	0	0	104 143	0	4		0	10 14	2	175 163	
2015 2016	0	3U 47	104 143 43 79	0	0	143	0	2		0	15	20	142	
2017	0	51	79	0	0	43 79	0	2		0	14	142	196	
2018	Ŏ	57	113	ŏ	Ŏ	113 13 5	Ŏ	4		Ŏ	29	151	139	
2018 2019	0	57 52	113 13	0	0	13	0	4		0	29 55	151 199	0	
2020	0	58	5	0	0	5	0	4		0	195	207	0	
2021 2022	0	58 62 50	16 96	0	0	16 96	0	4 7		0	284 362	165 202	0	
2022	0	50	90	0	U		Trillion Btu	,		U	302	202	U	
	40.4				4.5			P ( )				A14		
1960	16.1 11.1 0.0	0.4 0.5	0.1 0.1	0.0	4.5 5.5	4.6 5.6	0.0	R (s) (s)	0.0 0.0	0.0	NA NA	NA NA	0.0	<sup>R</sup> 21.1 17.1
1965 1970	11.1	2.4	0.1	0.0	18.8	0.0 10.1	0.0 0.0	(S) (S)	0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	21.1
1975	0.0	(s)	0.3 0.2 0.2 0.1	0.0 0.0	9.7	19.1 9.8	0.0	(s)	0.0	0.0	NA	NA	0.0	21.5 9.9 R 12.1 8.6 R 12.7 R 42.5 57.0 R 46.2 R 46.8 56.3 58.4 R 61.0 
1980 1985	0.0	(s) 1.7 2.6	0.2	0.0 0.0	10.3	10.4 4.6	0.0 0.0	(s)	0.0 0.0	0.0	NA	NA	0.0	R 12.1
1985	0.0	2.6	0.1	0.0	4.4	4.6	0.0	0.0 R (s) R (s)	0.0	0.0	0.0	0.0	0.0 1.4	8.6
1990 1995	0.0 0.0 0.0	9.3 36.6 49.9	0.1 0.1 0.2 0.2 0.1 0.2 0.2 0.1	0.0	2.1 0.4	2.2 0.5 0.2	0.0	H (s)	1.0	0.0	0.0	0.0 0.0 0.0	0.1 4.4	H 12.7
1995	0.0	36.6	0.1	0.0	0.4	0.5	0.0	n (s)	1.0	0.0	0.0 0.0	0.0	4.4 5.4	<sup>n</sup> 42.5
2000	0.0	49.9 44.0	0.2	0.0	0.0	0.2	0.0 0.0	(s) R (s)	1.4	0.0	0.0	0.0	5.4 1.2	37.0 R 46.2
2005 2006	0.0 0.0	44.8 43.8 52.7 54.1 56.6 57.9	0.2	0.0 0.0	0.0 0.0	0.2 0.1 0.2	0.0	R (s) R (s)	0.0 1.8	0.0 0.0	0.0	0.0	1.2 1.1 1.4 2.1 2.5 1.6	R 46.8
2007	0.0	52.7	0.2	0.0	0.0	0.2	0.0	(s)	1.9	0.0	0.0	0.0	1.4	56.3
2008	0.0	54.1	0.2	0.0	0.0	0.2	0.0	(s)	2.0	0.0	0.0	0.0	2.1	_ 58.4
2009 2010	0.0 0.0	56.6	0.1	0.0 0.0	0.0 0.0	0.1	0.0 0.0	(s)	1.8 1.8	0.0 0.0	0.0	0.0	2.5	H 61.0
2010	0.0	57.9	0.1	0.0	0.0	0.1	0.0	R (s)	1.8	0.0	0.0	(s)	1.6	61.4
2011 2012	0.0 0.0	65.3	0.1	0.0	0.0	0.1	0.0 0.0	(s)	1.6	0.0 0.0	0.0	(S)	2.1	" 69.1 B co.o
2012	0.0	65.3 62.5 47.9	0.1 0.2 0.3	0.0 0.0	0.0 0.0	0.2 0.3	0.0	(S) (S)	1.6 1.2 0.5	0.0	0.0	(8)	2.1 0.0 0.5	R 69.1 R 63.8 R 49.2
2014	0.0	46 1	0.6	0.0	0.0	0.6	0.0	(s)	2.0	0.0	(s) R (s) R (s)	(s) (s) (s) (s) (s) R 0.1 R 0.5 R 0.5 R 0.7	0.6	R 49.2 R 54.9 R 51.1 R 55.8 R 62.7
2014 2015	0.0 0.0 0.0	46.1 51.4 48.2	0.8	0.0	0.0	0.8 0.2	0.0	(s)	2.1	0.0	R (S)	(s)	0.6 0.6 0.5	R 54.9
2016	0.0	48.2	0.6 0.8 0.2	0.0	0.0	0.2	0.0	(s)	2.0	0.0	_0.1	R 0.1	0.5	R 51.1
2017 2018	0.0 0.0	52.2 58.9	0.5 0.7	0.0 0.0	0.0 0.0	0.5 0.7	0.0 0.0	(s)	1.9 2.0	0.0 0.0	R (s)	R 0.5	0.7 0.5	R 55.8
2018	0.0	58.9	0.7	0.0	0.0	0.7	0.0	(s)	2.0	0.0	H 0.1	H 0.5	0.5	H 62.7
2019	0.0	53.0	0.1	0.0	0.0	0.1	0.0	(s)	2.0	0.0	R 0.2	11 U. 7 R O 7	0.0	11 56 ()
2020 2021	0.0 0.0	63.7	(s) 0.1	0.0 0.0	0.0	(s) 0.1	0.0 0.0	(S) (S)	2.8 2.1	0.0 0.0	0.1 R (s) R 0.1 R 0.2 R 0.7 R 1.0	R 0.7	0.0 0.0	R 64.3 R 67.4
2022	0.0	53.0 60.1 63.7 51.7	0.6	0.0	0.0 0.0 0.0	0.6	0.0	(s)	2.1	0.0	1.2	R 0.7 R 0.6 0.7	0.0	56.4
							. •	\-/	•					

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, South Carolina

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	d barrels
1960	3 719	59	5 234	1,376	3 131	18 094	4 732	7,095	39 661	0	3 611	0	NA	NA
1960 1965	3,719 4,760	59 87	5,234 4,849	2,097	3,131 2,958	18,094 21,430	4,732 3,916	5.924	39,661 41,174	75	3,611 3,517	0	NA	NA
1970	5,817	160	9.423	2,927	3.170	28,756	5,335 5,554	5,394	55 006		2.293	0	NA	NA
1971 1972	6,320 7,239	156 144	9,040 9,849	3,031 3,415	3,258 3,108	30,506 32,847	5,554 6,362	6,030 5,345	57,419 60,926	2,414 4,829	3,485	0	NA NA	NA NA
1972	6,968	153	10,719	3,384	2,794	34,554	9,410	5,068	65,929	6,166	3,347 3,908	0	NA NA	NA NA
1974	6,514	132	9.589	2.957	2,800	34,467	9,575	4,907	64.295	11,057	3.455	0	NA	NA
1975	5.842	123	8,376	3,204	2.692	35,429	7.666	4,468	61,834	19,458	4,413	Ö	NA	NA
1976	7,053 7,959	149	10,511	3,652	2,562 2,732	37,409	11,626 13,151 13,193	4,643	70,404	17,850	3.414	0	NA	NA
1977	7,959	139	13,141	3,742 3,734	2,732	38,220	13,151	4,892	75,878	17,239	3,050	0	NA	NA
1978 1979	7,988 8,399	118 119	11,132 11,918	3,734 2,968	2,854 2,941	39,996 37,899	10,928	4,815 4,543	75,725 71,197	19,457 18,220	3,207 3,959	0	NA NA	NA NA
1980	9,929	142	10,660	3,178	3,062	35,517	7,205	4,793	64,414	17,404	3,025	0	NA NA	NA NA
1981	10,858	142	9,822	2,826 2,606	2,865 2,745	35,600	5.349	4,676	61,138	17 327	1,257 2,429	ŏ	40	NA
1982	10,858 10,989	98	9,822 9,485	2,606	2,745	35,446	3,133	4,676 3,935	61,138 57,351	13,156	2,429	0	142	NA
1983	9,362	102	10,553	2,621	2,529	35,896	3,933	4,212 4,557	59,744	25,581 23,235	3,098 3,177	0	. 2	NA
1984 1985	9,768 10,479	108	11,645 12,256	2,520 3,161	3,080 3,184	37,133 37,719	5,013 2,921	4,55 <i>7</i> 4,817	63,948 64,057	23,235 31,826	3,1//	0	(s) 1	NA NA
1986	10,479	97 99	11,995	2,880	3,168	37,719	2,401	5,276	65,002	35,625	1,835 1,266	0	34	NA NA
1987	11,701	106	12,488	3 620	3,193	38.522	2.458	6,409	66,690	39.290	2.209	0	92	NA
1988	11,937	112	13,218	3,536 3,672	3,229	42,828	3,274	7,475	73,560	40,746	2,209 680	Ō	249	NA
1989	11,981	117	12,711	3,672	3,117	42,171	2.719	6,235	70,626	40,780	2.041	0	238	NA
1990	11,447	130	14,866	2,914	2,939	43,264	2,416	5,132	71,532	42,881	3,298	0	148	NA
1991 1992	11,451 11,285	134	16,237	3,606 3,597	3,442 2,586	42,561 43,441	2,419 2,368	5,523 5,815	73,788	43,108 45,537	3,111	0	(s)	NA NA
1992	12,914	138 142	14,033 13,548	3,660	2,024	45,081	2,366 3,763	5,668	71,839 73,743	45,537 46,189	3,310 2,950	0	0	NA NA
1994	12,993	144	15.297	3.871	1.451	45 249	2.568	5,025	73,463	44,466	3.035	0	0	NA NA
1995	12,993 12,279	144 152 150	15,297 14,501	3,826	1,451 1,027	46,973	2,568 2,649	5,789	73,463 74,765	49,173	3,035 3,457	Ō	Ō	NA
1996	13.852	150	15,174	3,666	1.292	47,427	2.984	5,368	75.911	43,571	3,041 2,958	0	0	NA
1997	14,109	154	15,815	6,150	1,328	49,468	2,590	6,392	81,745	44,916	2,958	0	0	NA
1998 1999	14,649 15,764	159 163	18,227 18,271	4,601 3,858	1,438 1,536	51,216 52,774	2,212 1,757	6,631 6,912	84,323 85,106	48,759 50,814	3,569	0	0	NA NA
2000	16,946	160	18,879	5,038	1,861	53,040	2,324	6,874	88,016	50,888	1,687 1,533	0	0	NA NA
2001	16,421	142	19,389	3,563	1,851	53,822	2,178	8,321	89.122	49,870	1,225	ŏ	ŏ	1
2002	16,263	185	19.240	3.362	1.548	55,222	2.079	7.373	89,122 88,824	53.326	1.390	0	0	1
2003 2004	16,697	147 164	19,531 22,074	3,152	1,459 1,656	55,935 61,691	3,816 5,540	7,701	91,592 104,891	50,418	3,665 2,447	0	0	1
2004	17,351 17,296	164 172	22,074 21,547	3,117	1,656 1,609	61,691 59,302	5,540 5,039	10,813 10,162	104,891 101,266	51,201 53,138	2,447	0	0 353	2 7
2005	17,288	175	21,812	3,607 3,243	1,805	61,779	3,589	10,162	102,534	50,797	2,938 1,807	0	520	10
2007	17.794	176	21 880	2.858	1,881	61,328	3.226	8.841	100.014	53.200	1.556	0	777	26
2008	18,040	170	19,699	2,858 3,088	1,881 1,751	61,328 62,353	2,464	8,841 8,058	100,014 97,413	51,763	1,556 1,123	Ö	4,234	22
2009	14,971	191	18.656	2.697	1,076	65.402	2.786	9,804	100.421	52.150	2,332 2,376 1,554	0	5,415	23
2010	16,337	220	20,467	2,968	3,078	63,032	2,864	6,853	99,262	51,988	2,376	0	5,487	19
2011 2012	14,881 12,164	229 245	20,375 18,318	2,598 2,196	2,697 2,422	61,221 62,179	3,196 2,518	5,492 5,354	95,579	52,903 51,145	1,554	0	5,526 5,949	65
2012	12,164	245	20,547	2,196	2,422	62,179	1,720	5,354 5,554	92,986 95,791	51,145 54,252	1,420 3,160	0	5,949 6,094	19 26 22 23 19 65 52 275
2013	12.346	231	20,248	2,738	2,233	63.159	1 147	5,799	95,791 95,703 101,706 R 104,196 R 104,578 R 104,774	52,419	2,569	0	5,913	246
2015	12,346 9,716	231 276	20,248 21,204	2,738 2,403	2,614 2,700	63,159 66,793	1,722	5,799 6,884	101,706	52,419 53,156	2,569 2,564	Ö	6,150	246 297
2016	9.007	276	22,657	2.399	2,919	67.933	1.694	n 6 593	R 104,196	55.826	2.226	0	6.406	569
2017	7,898	279	22,818	2,467	3,170	68,430	2,426	R 5,267	H 104,578	54,345	1,835	0	6,623	606
2018 2019	8,482 6,635	330	23,841 24,371	2,540 2,280	3,403	67,303 67.490	2,564 191	R 5,122 R 5,222	T 104,774	52,716 56,103	3,014 2,976	0	6,702 6,690	329
2019	5,691	339 333 R 339 351	23 642	2,280 2,346	3,569 2,938	57,490 59,890	191	H 4 166	R 103,122 R 93,173	56,103 54,751	2,976 3,863	0	5,921	268 _ 292
2021	6,664	R 339	R 23,369	2,540	3,279	65,661	1,782	R 4,377	R 101,008	53,771	2,544	0	6,559	R 229
2022	6,174	351	22,887	2,586	3,125	64,117	1,826	3,909	98,451	54,370	2,181	ŏ	6,458	182

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

distillate fuel oil. Excludes biofuels product supplied.

Chydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes herosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, South Carolina (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
		Natural gas	Distillate			Petroleum Motor					Natural gas	Distillate	Motor
Year	Coal	excluding supplemental gaseous fuels <sup>a</sup>	fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	including supplemental gaseous fuels <sup>a</sup>	fuel oil including biofuels <sup>a</sup>	gasoline including fuel ethanol <sup>a</sup>
960	96.4	60.6	30.5	5.3	16.8	95.0	29.7	41.9	219.2	376.2	60.6	30.5	95.0
965	121.5	90.5	28.2	8.0	15.8	112.6	24.6	35.2	224.5	436.5	90.5	28.2	112.6
970 971	140.1 152.0	164.3 160.6	54.9 52.7	11.1 11.5	17.1 17.6	151.1 160.2	33.5 34.9	32.7 36.2	300.4 313.1	604.8 625.7	164.3 160.6	54.9 52.7	151.1 160.2
972	174.9	148.2	57.4	12.9	16.8	172.5	40.0	32.4	332.0	655.1	148.2	57.4	172.5
973 974	167.9	157 1	62 4	12 7	15.1	181.5	59.2	30.9	361.8 353.8	686.9	157 1	62 4	181.5
974 975	155.3 140.2	135.3 125.9	55.9	11.1 12.0	15.1 14.5	181.1 186.1	60.2 48.2	30.5 27.8	353.8 337.4	644.3 603.4	135.3 125.9	55.9 48.8	181.1
975 976	171.0	152.4	48.8 61.2	13.6	13.8	196.5	48.2 73.1	27.8 28.4	386.7	710.2	152.4	48.8 61.2	186.1 196.5
977	189.6	141.6	76.5	13.9	14.8	200.8	73.1 82.7	28.4 29.9	418.6	749.8	141.6	76.5	200.8
978	192.3	121.3	64.8	13.8	15.5	210.1	82.9	29.5	416.7	730.3	121.3 121.5	64.8	210.1
979 980	206.8 245.8	121.5 146.8	69.4 62.1	11.0 11.8	15.9 16.6	199.1 186.6	68.7 45.3	27.8 29.0	392.0 351.3	720.2 743.9	121.5 146.9	69.4 62.1	199.1 186.6
981	266.5	145.0	57.2	10.5	15.5	187.0	33.6	28.5	332.4	743.9	145.2	57.2	187.0
982	271.5	101.0	55.3	9.6	14.8	186.2	19.7	24.0	309.6	682.0	101.0	<i>55.3</i>	186.2
983	233.9	104.3	61.5	9.8	13.7	188.6	24.7	26.0	324.2	662.4	104.4	61.5	188.6
984 985	244.0 262.7	111.2 100.1	67.8 71.4	9.5 11.8	16.6 17.2	195.1 198.1	31.5 18.4	27.5 29.1	348.0 346.0	703.2 708.7	111.2 100.2	67.8 71.4	195.1 198.1
986	263.9	101.5	69.9	10.8	17.2	206.4	15 1	32.3	351.6	717.0	101.5	69.9	206.4
987	295.3	108.6	72.7	13.5	17.3	206.4 202.4	15.5	39.4	351.6 360.7	764.7	108.6	72.7	202.4
988	301.8 302.2	115.1	77.0	13.2 13.8	17.5	225.0 221.5	20.6	46.2 38.2	399.5	816.5 803.4	115.3 119.9	77.0	225.0 221.5
989 990	302.2 289.2	119.6 134.1	74.0 86.6	10.9	16.9 16.0	221.5 227.3	17.1 15.2	38.2 31.7	381.6 387.6	803.4 810.9	134.1	74.0 86.6	221.5 227.3
991	291.0	137.4	94.6	13.4	18.7	223 6	15.2	33.6	399.1 387.9	827.4	137.4	94.6	223 6
992	288.3	141.8	81.7	13.4	14.1	228.2	14.9	35.5	387.9	817.9	141.8	81.7	228.2
993	329.4 330.8	145.6 148.7	78.9 89.0	13.6 14.5	11.1 8.1	235.2 235.9	23.7 16.1	34.8	397.2 394.5	872.3 874.1	145.6 148.9	78.9 89.0	235.2 235.9
994 995	314.5	156.0	84.4	14.5	5.8	244.4	16.7	30.9 35.9	401.4	871.9	156.0	84.4	235.9 244.4
996	352.6	153.9	88.3	13.5	7.3	247.1	18.8	33.4	408.5	915.0	154.1	88.3	247.1
997	361.4	158.7	92.0	22.2	7.5	257.5	16.3	40.4	435.9	956.0	158.7	92.0	257.5
998 999	373.4 402.2	164.9 168.0	106.1 106.3	16.7 14.2	8.2 8.7	266.5 274.5	13.9 11.0	41.1 42.6	452.3 457.4	990.6 1,027.5	164.9 168.0	106.1 106.3	266.5 274.5
000	432.2	165.0	109.9	18.4	10.6	275.9	14.6	43.0	472.3	1,069.5	165.1	109.9	275.9
001	414.5	147.2	112.8	13.0	10.5	279.9	13.7	51.1	481.0	1,042.6	147.2 190.7	112.8	279.9
002	404.5	190.7	112.0	12.5	8.8	287.1	13.1	45.3	478.7	1,073.8	190.7	112.0	287.1
003 004	419.7 433.9	151.9 169.5	113.6 128.4	11.8 11.7	8.3 9.4	290.7 320.5	24.0 34.8	47.5 64.8	495.8 569.7	1,067.4 1,173.1	151.9 169.5	113.6 128.4	290.7 320.5
005	433.9 431.1	178.3	125.4	13.4	9.1	320.5 306.7	31.7	61.2	569.7 547.4	1,156.8	169.5 178.4	128.4 125.4	307.9
006	432.2	181.9	126.6	12.0	10.2	318.5	22.6	61.9	551.8	1,165.9	182.0	126.6	320.3
007 008	444.0 445.5	182.2 175.9	126.6 113.9	10.6 11.6	10.7 9.9	312.7 303.7	20.3 15.5	53.0 48.0	533.8 502.6	1,160.0 1,123.9	182.2 175.9	126.6 113.9	315.3 318.4
009	372.0	197 4	106.7	10.0	6.1	314.2	17.5	58.2	512.7	1.082.1	197.4	107.8	332.9
010	372.0 405.0	226.0	117.4	11.4	17.5	300.4	18.0	41.4	512.7 506.0	1,082.1 1,137.0	226.0	118.2	319.4
011	366.2	235.5	115.6	10.0	15.3	290.8	20.1	33.5	485.2	1,086.9	235.5	117.6	310.0
012 013	298.6 257.3	250.5 236.9	103.8 114.5	8.4 8.8	13.7 12.7	294.1 299.9	15.8 10.8	32.4 33.5	468.3 480.2	1,017.3 974.5	250.5 236.9	105.6 118.4	314.8 321.1
)14	305.7	236.0	113.2	10.5	14.8	299.0	7.2	34.9	479.6	1.021.3	236.1	116.7	319.5
15	241.2	284.0	118.3	9.2	15.3	316.4	10.8	41.4	511.4	1,036.7	284.0	122.2	337.8
16 17	221.9	284.2	124.8 126.1	9.2 9.5	16.6	321.2 322.7	10.7	39.9 32.6	522.3 524.2	1,028.4 R 1,004.4	284.2 287.4	130.4 131.4	343.4 345.8
)1 <i>7</i> )18	192.8 205.2	287.4 339.0	126.1 132.5	9.5 9.8	18.0 19.3	322.7 316.8	15.3 16.1	32.6 31.5	526.0	1 070 2	287.4 339.0	131.4 137.3	345.8 340.1
)19	160.7	347.9	135.6	8.8	20.2	317.7	1.2	32.4	R 515 Q	R 1.024.5	347.9	140.4	341.0
20	137.3	3/13/3	131.1	9.0	16.7	282.0	1.2 1.2	R 26.0 R 27.0	H 466 0	H 946 6	_ 343.3	_ 136.1	302.6
021	162.6	R 350.0	R 132.5 129.9	9.8	18.6	308.8	11.2	<sup>H</sup> 27.0 24.5	R 507.2 494.2	R 1,019.8	R 350.0	R 134.7 131.9	331.6
022	151.0	361.2	129.9	9.9	17.7	301.2	11.5	24.5	494.2	1,006.4	361.3	131.9	323.7

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, South Carolina (continued) (trillion Btu)

Pear   Power								nergy	Renewable e							
Nuclear   Hydro-   Power   Hydro-   Power   Hydro-   Power   Hydro-   Power   Hydro-   Hydr			Net							mass	Bio					
1965	net į	Electricity net imports	interstate flow of	Total <sup>f</sup>	Wind	Solar <sup>f,j</sup>		Total <sup>f</sup>	and co-		Biodiesel			electric	electric	Year
1970 0.1   1978   41.0   NA   NA   NA   NA   NA   NA   NA   N	0.0 R 470. 0.0 R 533. 0.0 R 718. 0.0 R 749.		R 39.0 R 43.3	R 55.4 R 52.6					NA NA			NA NA	43.1 40.6	R 12.3		
1986 376.9	0.0 R 718.	0.0	R 64.3	R 48.8	NA	NA	0.0	41.0	NA	NA	NA	NA	41.0	H7Ω	0.1	1970
1986 376.9	0.0 R 749. 0.0 R 802.		H 43.4 R 41.0	H 53.9 R 53.9	NA NA	NA NA		42.1	NA NA			NA NA	42.1	H 11.9 R 11.4	26.2 52.1	1971
1986	0.0 R 852.	0.0	R 41.6	R 56 6	NA	NA	0.0	43.3	NA	NA	NA	NA	43.3	H 122	67.2	1973
1986 376.9	0.0 R 821. 0.0 R 804.	0.0	H -2.1 B 70.2	H 55.6	NA NA							NA NA	43.8	H 11 R	123.4	1974
1986	0.0 R 929.	0.0	R -37.6	R 59.6	NA	NA	0.0	47.9	NA	NA	NA	NA	47.9	H 11 G	197.2	1976
1986 376.9	0.0 R 972.		R -22.8	R 59.5	NA	NA	0.0	49.1	NA			NA	49.1	H 10 4	185.6	1977
1986 376.9	0.0 R 959. 0.0 R 950.	0.0	R -32.3	H 64.1	NA NA	NA		50.6 50.5	NA NA			NA NA	50.5	R 13.5		1979
1986	0.0 R 962.	0.0	R -21.3	R 50 1	NA	NA	0.0	39.8	NA	NA	NA	NA	39.8	R <sub>10.3</sub>	189.8	1980
1986 376.9	0.0 R 967. 0.0 R 930.	0.0	R 49 8	R 52 5	NA NA	NA NA	0.0	39.2 44.2	0.0		NA NA	0.1 0.5	39.0 43.7	Няз		1981 1982
1986 376.9	0.0 R 959.	0.0	R <sub>-</sub> 35.4	R 53.4	0.0	NA	0.0	42 8	0.0	NA	NA	(s)	42.8	R 10.6	279.0	1983
1986 376.9	0.0 R 1,023. 0.0 R 1,035.	0.0	<sup>n</sup> 10.1	R 57.9	0.0	0.0		47.1 47.1				(S)	47.1 47.4	нез		1984
1987 410.3 P.7.5 72.6 0.3 NA NA 0.0 73.0 0.0 0.0 0.0 P.80.5 P.115.9 P.	0.0 R 1,000	0.0	R -77.3	R 81.0	0.0	0.0	0.0	76.7	0.0	NA	NA	0.1	76.6	R 4.3	376.9	1986
1993 485.2 110.1 79.7 0.0 NA NA 0.0 79.7 0.1 (S) 0.0 189.9 1196.1 1994 464.8 110.4 83.2 0.0 NA NA 0.0 83.2 0.1 (S) 0.0 189.3 1196.1 1995 516.7 11.8 88.9 0.0 NA NA 0.0 88.9 0.1 (S) 0.0 11	0.0 R 1,139 0.0 R 1,201	0.0	H -115.9	H 80.5	0.0	0.0	0.0	73.0		NA	NA	0.3	72.6	H 7.5	410.3	1987
1993 485.2 110.1 79.7 0.0 NA NA 0.0 79.7 0.1 (S) 0.0 189.9 1196.1 1994 464.8 110.4 83.2 0.0 NA NA 0.0 83.2 0.1 (S) 0.0 189.3 1196.1 1995 516.7 11.8 88.9 0.0 NA NA 0.0 88.9 0.1 (S) 0.0 11	0.0 R 1,201.	0.0	R -115.6	R 83 6	0.0		0.1	76.5			NA	0.9	75.4 75.7	H 7 N	431.6	1989
1993 485.2 110.1 79.7 0.0 NA NA 0.0 79.7 0.1 (S) 0.0 189.9 1196.1 1994 464.8 110.4 83.2 0.0 NA NA 0.0 83.2 0.1 (S) 0.0 189.3 1196.1 1995 516.7 11.8 88.9 0.0 NA NA 0.0 88.9 0.1 (S) 0.0 11	0.0 R 1,250.	0.0	R -98.1	R 83.6	0.0	(s)	0.1	72.2	0.0	NA	NA	0.5	71.7	H 11 2	453.8	1990
1993 485.2 110.1 79.7 0.0 NA NA 0.0 79.7 0.1 (S) 0.0 189.9 1196.1 1994 464.8 110.4 83.2 0.0 NA NA 0.0 83.2 0.1 (S) 0.0 189.3 1196.1 1995 516.7 11.8 88.9 0.0 NA NA 0.0 88.9 0.1 (S) 0.0 11	0.0 R 1,202. 0.0 R 1,250. 0.0 R 1,250. 0.0 R 1,275. 0.0 R 1,291.	0.0	R -91.5	R 87 7	0.0		0.1	76.3		NA NA	NA NA	(s) 0.0	75.1 76.3	H 11 3	476.8	1992
1995         516.7         H 11.8         88.9         0.0         NA         NA         0.0         88.9         0.1         (s)         0.0         H 100.8         H 83.8           1996         457.6         H 10.4         100.2         0.0         NA         NA         0.0         100.2         0.1         (s)         0.0         H 110.7         R 37.4           1997         471.3         H 10.1         101.6         0.0         NA         NA         0.0         101.6         0.1         (s)         0.0         R 111.9         R -44.1           1998         511.5         H 12.2         93.4         0.0         NA         NA         0.0         93.4         0.1         (s)         0.0         R 105.7         R 69.1           1999         531.0         H 5.8         79.6         0.0         NA         NA         0.0         79.6         0.1         (s)         0.0         R 85.5         R 86.9           2000         530.7         H 5.2         76.7         0.0         NA         NA         0.0         76.7         0.1         (s)         0.0         R 82.1         R -77.7           2001         520.8         R 4.2         <	0.0 R 1,351. 0.0 R 1,350.	0.0	R -96.1	R 89.9	0.0	(s)	0.1	79.7	0.0	NA	NA	0.0	79.7	H 10 1	485.2	1993
1996	0.0 P 1,350.	0.0	n -81.8 R -83.8	R 100 8	0.0	(S)	0.1 0.1	83.2 88.9					83.2 88.9	R 11 8	464.8 516.7	1994 1995
1997 471.3	0.0 R 1,445.	0.0	R -37.4	H 110 7	0.0		0.1	100.2	0.0	NA	NA	0.0	100.2	H 10 /	457.6	1996
1999 531.0 R5.8 79.6 0.0 NA NA 0.0 79.6 0.1 (s) 0.0 R8.1 R-70.7 2001 520.8 R4.2 57.7 0.0 (s) NA 0.0 57.7 0.2 (s) 0.0 R62.1 R-77.7 2002 556.8 R4.7 66.3 0.0 (s) NA 0.0 66.3 0.2 (s) 0.0 R71.2 R-108.3 2003 525.5 R12.5 66.4 0.0 (s) NA 0.0 66.5 0.2 (s) 0.0 R79.2 R-86.6 2004 533.9 R8.3 72.7 0.0 (s) NA 0.0 72.7 0.2 (s) 0.0 R81.3 R-90.7 2005 554.5 R10.0 74.5 1.2 (s) NA 0.0 75.8 0.3 (s) 0.0 R81.3 R-90.7 2006 530.1 R6.2 80.4 1.8 0.1 NA (s) 82.3 0.3 (s) 0.0 R88.8 R-101.9 2007 558.0 R5.3 79.2 2.7 0.1 NA (s) 82.3 0.3 (s) 0.0 R88.8 R-101.9 2007 558.0 R5.3 79.2 2.7 0.1 NA 0.1 82.1 0.4 (s) 0.0 R88.8 R-101.9 2008 541.0 R3.8 80.5 14.7 0.1 NA 0.1 95.3 0.4 (s) 0.0 R99.6 R-133.2 2009 545.4 R8.0 79.6 18.7 0.1 NA (s) 98.5 0.6 (s) 0.0 R107.1 R-174.1 2010 542.4 R8.0 79.6 18.7 0.1 NA (s) 98.5 0.6 (s) 0.0 R107.1 R-174.1 2010 542.4 R8.0 79.6 18.7 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R14.2 R-142.6 (s) 10.0 R14.2 R-143.6 (s) 10.0 R143.2 R-143.6 (s) 10.0 R14.2 R-	0.0 R 1,495. 0.0 R 1,538.	0.0	H -44.1 R -60.1	H 111.9 R 105.7	0.0		0.1	101.6		NA NA	NA NA		101.6	n 10 1		1997
2000 530.7	0.0 R 1 557	0.0	R -86.9	R 85.5	0.0		0.1	79.6	0.0	NA	NA	0.0	79.6	R 5.8	531.0	1999
2001 520.8	0.0 R 1,604.	0.0	R -77.7	R 82.1	0.0	(s)	0.1	76.7					76.7	R 5.2		2000
2003 525.5 R12.5 66.4 0.0 (s) NA 0.0 66.5 0.2 (s) 0.0 R79.2 R-86.6 2004 533.9 R.8.3 72.7 0.0 (s) NA 0.0 72.7 0.2 (s) 0.0 R81.3 R-90.7 2005 554.5 R10.0 74.5 1.2 (s) NA 0.0 75.8 0.3 (s) 0.0 R86.1 R-130.2 2006 530.1 R6.2 80.4 1.8 0.1 NA (s) 82.3 0.3 (s) 0.0 R88.8 R-101.9 2007 558.0 R5.3 79.2 2.7 0.1 NA 0.1 82.1 0.4 (s) 0.0 R87.8 R-143.6 2008 541.0 R3.8 80.5 14.7 0.1 NA 0.1 95.3 0.4 (s) 0.0 R97.8 R-143.6 2009 545.4 R8.0 79.6 18.7 0.1 NA (s) 98.5 0.6 (s) 0.0 R107.1 R-174.1 2010 542.4 R8.0 79.6 18.7 0.1 NA (s) 98.5 0.6 (s) 0.0 R107.1 R-174.1 2010 542.4 R8.0 79.6 18.7 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 79.6 18.7 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.4 10.0 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.4 10.0 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.4 10.0 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.4 10.0 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.4 10.0 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.4 10.0 0.1 NA (s) 10.6 (s) 10.6 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 10.4 (s) 10.0 R107.1 R-174.1 2010 542.4 R8.0 R107.1 R107.1 R-174.1 2010 542.4 R8.0 R107.1	0.0 R 1,555. 0.0 R 1,593.	0.0	R -108.3	R 71.2	0.0	(S) (S)	0.2	66.3		NA NA		0.0	66.3	H47	520.8 556.8	2002
2004 533.9	0.0 R 1,585.	0.0	R -86.6	R 79 2	0.0	(s)	0.2	66.5	0.0	NA	(s)	0.0	66.4	R 12.5	525.5	2003
2006 530.1 R6.2 80.4 1.8 0.1 NA (s) 82.3 0.3 (s) 0.0 R88.8 R-101.9 2007 558.0 R5.3 79.2 2.7 0.1 NA 0.1 82.1 0.4 (s) 0.0 R87.8 R-143.6 2008 541.0 R3.8 80.5 14.7 0.1 NA 0.1 95.3 0.4 (s) 0.0 R99.6 R-143.2 2009 545.4 R8.0 79.6 18.7 0.1 NA (s) 98.5 0.6 (s) 0.0 R107.1 R-174.1 2010 542.4 R8.1 01.4 19.0 0.1 NA (s) 98.5 0.6 (c) 0.0 R107.1 R-174.1	0.0 H 1,697. 0.0 R 1,667.	0.0	R -130 2	R 86 1	0.0	(s)	0.2 0.3	/2./ 75.8		NA NA		0.0 1.2	/2./ 74.5	H 10 0	533.9 554.5	2005
2007 558.0 9.5.3 79.2 2.7 0.1 NA 0.1 82.1 0.4 (s) 0.0 987.8 9-143.6 2008 541.0 93.8 80.5 14.7 0.1 NA 0.1 95.3 0.4 (s) 0.0 99.6 9.133.2 2009 545.4 98.0 79.6 18.7 0.1 NA (s) 98.5 0.6 (s) 0.0 9107.1 8-174.1 2010 542.4 88.1 01.4 10.0 0.1 NA (s) 10.6 (c) 0.0 8110.2 8140.2 8140.2	0.0 R 1,682.	0.0	R -101.9	Raaa	0.0	(-)	0.3	82.3	(s)	NA	0.1	1.8	80.4	R 6.2	530.1	2006
2009 545.4 R8.0 79.6 18.7 0.1 NA (s) 98.5 0.6 (s) 0.0 R107.1 R-174.1	0.0 R 1,662. 0.0 R 1,631.		n -143.6 R -133.2	n 87.8 R qq 6	0.0	(s)		82.1 95.3	0.1			2.7 14.7	79.2 80.5	n 5.3 R 3 g		2007
2010 543.4 H.S.1 01.4 10.0 0.1 NA (c) 110.6 0.6 (c) 0.0 H.110.2 H.147.5	0.0 R 1,560.	0.0	R -174.1	H 107 1	0.0		0.6	98.5		NA	0.1	18.7	79.6	R 8 0	545.4	2009
2010 345.4 R6.1 91.4 19.0 0.1 NA (S) 110.5 0.6 (S) 0.0 R126.1 R-147.5 (S) 120.1 0.6 (S) 0.0 R126.1 R-155.6	0.0 R 1,652 0.0 R 1,610	0.0	H -147.5 B 155.6	R 119.3	0.0	(s)	0.6	110.6	(s)	NA 0.0	0.1	19.0	91.4	R 8.1	543.4	2010
2011 553.6 R 5.3 100.6 19.2 0.3 0.0 (s) 120.1 0.6 (s) 0.0 R 126.1 R -155.6 2012 536.0 R 4.8 103.8 20.6 0.3 0.0 (s) 124.7 0.6 R (s) 0.0 R 130.3 R -119.8	0.0 R 1,563.	0.0	R <sub>-</sub> 119.8	R 130.3	0.0	R (S)	0.6	124.7	(s)	0.0	0.3	20.6	103.8	HIΩ	536.0	2012
2013 566.9 R 10.8 103.1 21.1 1.5 0.0 (s) 125.7 0.6 R (s) 0.0 R 137.2 R 95.3 2014 548.2 R 8.8 111.5 20.5 1.3 0.0 (s) 133.4 0.6 0.1 0.0 R 142.8 R 84.1	0.0 R 1,583.	0.0	R -95.3	H 137 2	0.0	R (s)	0.6	125.7	(s)	0.0	1.5	21.1	103.1	R 10.8	566.9	2013
2014 548.2 R8.8 111.5 20.5 1.3 0.0 (s) 133.4 0.6 0.1 0.0 R 142.8 R 84.1 2015 555.9 R8.7 103.6 21.4 1.6 0.0 (s) 126.6 0.6 0.1 0.0 R 136.0 R 81.2	0.0 R1,560. 0.0 R1,550. 0.0 R1,652. 0.0 R1,563. 0.0 R1,563. 0.0 R1,583. 0.0 R1,624. 0.0 R1,647.	0.0	'' -84.1 R -81.2	H 136.0	0.0	U.1 0.1		133.4 126.6	(S)	0.0 0.0	1.3 1.6			R 8.7	548.2 555.9	
	0.0 R 1,644.	0.0	R <sub>-105.4</sub>	R 137 1	0.0	R 0.2	0.6	128.7	0.0	0.0	3.1	22.2	103.4	R 7 c	583.9	2016
2017 568.4	0.0 ° 1,635.		n -/8.6 R -111 6	R 143 7	0.0	™ 0.8 R 2.6	0.6 0.6	133.3 130.2			3.2 1.8		107.0 105.1	R 10.3		
2019 585.8 R 10.2 103.9 23.3 1.4 0.0 0.0 128.6 0.6 R 4.1 0.0 R 143.5 R -136.0 2020 571.9 R 13.2 R 98.6 20.6 1.6 0.0 0.0 R 128.6 0.6 R 7.2 0.0 R 141.8 R -155.9	0.0 H 1,617.	0.0	R -136.0	R 143.5	0.0	R 4.1	0.6	128.6	0.0	0.0	1 4	23.3	103.9	R 10.2	585.8	2019
2020 571.9 R 13.2 R 98.6 20.6 1.6 0.0 0.0 R 120.8 0.6 R 7.2 0.0 R 141.8 R -155.9 2021 R 560.8 R 8.7 R 99.2 22.8 R 1.2 0.0 0.0 R 123.2 0.6 R 9.3 0.0 R 141.8 R -121.3	0.0 R 1,504. 0.0 R 1,601.		H -155.9	H 141.8 R 141.9	0.0	H 7.2 R g 2	0.6	H 120.8		0.0	1.6 R 1.2	20.6	H 98.6	H 13.2 R g 7	571.9 R 560.9	2020
2021 R560.8 R8.7 R99.2 22.8 R1.2 0.0 0.0 R123.2 0.6 R9.3 0.0 R141.8 R-121.3 2022 567.0 7.4 101.4 22.5 1.0 0.0 0.0 124.9 0.6 10.1 0.0 143.1 -93.1	0.0 1,623.		-93.1				0.6	124.9			1.0				567.0	2022

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, South Carolina

, –							Petroleum					Rior	nass						
	c	Coal	Natural gas <sup>a</sup>	Distillate fuel oil b	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>	Бю				Electricity		Electrical	
Y		ousand ort tons	Billion cubic feet			1	Γhousand barrel	s			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
19		2,122	35	5,225	1,376	3,131	18,094	4,707	7,095	39,628	97					11,463			
19		2,109	115	8,667	2,927	3,170	28,756	3,294	5,394	52,208	37					21,694			
19 19		2,002 2,317	137 123	10,092 14,749	3,178 2,914	3,062 2,939	35,517 43,264	5,125 2,408	4,793 5,132	61,767 71,407	49					37,264 55,652			
20		1,912	152	18,274	5,038	1,861	53,040	2,406	6,874	87,244	1					77,012			
20		1,504	127	21,216	3,607	1,609	59,302	4,967	9,719	100,420	3					81,254			
20		1,527	125	21,589	3,243	1,805	61,779	3,560	10,281	102,258	2					80,877			
20		1,270	125	21,562	2,858	1,881	61,328	3,181	8,841	99,650	1					81,948			
20 20		1,161 900	124 117	19,533 18,477	3,088 2,697	1,751 1,076	62,353 65,402	2,459	7,966 9,174	97,149	1					80,651			
20		925	133	20,242	2,097	3,078	63,032	2,751 2,853	6,809	99,577 98,981	1					76,417 82,479			
20		911	129	20,208	2,598	2,697	61,221	3,196	5,492	95,412	(s)					80,489			
20		506	129	18,138	2,196	2,422	62,179	2,518	5,354	92,807	(s)					77,781			
20		504	139	20,365	2,282	2,238	63,449	1,720	5,554	95,609	4					78,602			
20		549	143	19,776	2,738	2,614	63,159	1,147	5,799	95,231	3					81,620			
20		439	140	20,861	2,403	2,700	66,793	1,722	6,884 R 6,593	101,363 R 104,028	2					81,328			
20 20		324 251	142 143	22,489 22,636	2,399 2,467	2,919 3,170	67,933 68,430	1,694 2,426	R 5,267	R 104,028	2					79,578 78,097			
20		200	157	23,257	2,540	3,403	67,303	2,564	R 5.122	R 104,189	2					81,641			
20		161	156	24,227	2,280	3,569	67,490	191	R <sub>5,222</sub>	R 102,978	2					80,206			
20		136	150	_ 23,514	2,346	2,938	59,890	191	R 4,166	R 93,045	3					76,737			
20		130	162	R 23,214	2,540	3,279	65,661	1,782	R 4,377	R 100,853	2								
20	2	93	161	22,540	2,586	3,125	64,117	1,826	3,909	98,103	1					82,758			
_										Trillion	Btu								
19	60	53.7	36.5	30.4	5.3	16.8	95.0	29.6	41.9	219.0	R 0.3	43.1	NA	NA	NA	39.1	R 391.8	R 78.9	R 470.6
19	0	50.1	118.0	50.5	11.1	17.1	151.1	20.7	32.7	283.2	R 0.1	41.0		NA	NA		R 566.4	R 151.6	R 718.0
19		48.9	141.3	58.8	11.8	16.6	186.6	32.2	29.0	334.9	R 0.2	39.8		NA		127.1	R 692.1	R 270.5	R 962.6
19		58.2	127.0	85.9	10.9	16.0	227.3	15.1	31.7	386.9	(s)	71.7	0.0			189.9		R 415.9	R 1,250.1
20 20		50.2 38.8	156.3 131.8	106.3 123.4	18.4 13.4	10.6 9.1	275.9 307.9	13.6 31.2	43.0 58.6	467.7 543.7	(s) (s)	76.7 67.6	0.0			262.8 277.2		R 590.9 R 607.8	R 1,604.6 R 1,667.3
20		39.2	129.8	125.3	12.0	10.2	320.3	22.4	61.7	551.9	(s)	73.4		0.3		276.0		R 612.1	R 1,682.9
20		32.9	129.5	124.7	10.6	10.7	315.3	20.0	53.0	534.4	(s)	72.8		0.4		279.6		R 612.5	R 1,662.3
20	18	30.1	128.0	112.9	11.6	9.9	318.4	15.5	47.5	515.8	(s)	73.6		0.4		275.2		R 608.1	R 1.631.4
20		23.3	120.3	106.7	10.0	6.1	332.9	17.3	54.6	527.7	(s)	71.2		0.6		260.7	1,003.7	R 557.8	R 1,561.5
20		23.9	136.4	116.9	11.4	17.5	319.4	17.9	41.2	524.2	(s)	82.7	(s)	0.6		281.4	1,049.3	R 603.5	R 1,652.9
20 20		23.2 12.9	132.1 131.4	116.6 104.6	10.0 8.4	15.3 13.7	310.0 314.8	20.1 15.8	33.5 32.4	505.4 489.7	(s)	91.7 93.2	(s)	0.6 0.6		274.6 265.4	1,027.8 993.2	R 584.7 R 572.1	R 1,612.5 R 1,565.3
20		13.3	141.3	117.4	8.8	12.7	321.1	10.8	33.5	504.2	(s) (s)	93.2		0.6	R (s)	268.2		R 566.7	R 1,585.7
20		14.4	146.6	114.0	10.5	14.8	319.5	7.2	34.9	500.9	(s)	95.4	(s)	0.6		278.5		R 594.1	R 1,630.5
20	5	11.3	143.9	120.2	9.2	15.3	337.8	10.8	41.4	534.7	(s)	86.5	(s)	0.6	0.1	277 5	1.054.6	R 595.1	R 1.649.7
20		8.4	146.8	129.5	9.2	16.6	343.4	10.7	39.9	549.2	(s)	87.1	0.0		R 0.2	271.5	R 1,063.9	R 582.7	R 1,646.6
20		6.7	147.9	130.3	9.5	18.0	345.8	15.3	32.6	551.4	(s)	89.9	0.0		R 0.5	266.5	R 1,063.6	R 573.5	R 1,637.1
20		5.3	160.9	133.9	9.8	19.3	340.1	16.1	31.5	550.8	(s)	88.9				278.6	R 1,086.0 R 1,070.7	R 570.6 R 550.5	R 1,656.5 R 1,621.2
20 20		4.3 3.5	160.2 154.8	139.5 135.3	8.8 9.0	20.2 16.7	341.0 302.6	1.2 1.2	32.4 R 26.0	543.1 R 490.8	(s) (s)	87.7 R 83.3	0.0			273.7 261.8		R 511.6	R 1,507.8
20		3.4	R 166.6	R 133.8	9.8	18.6	331.6	11.2	R 27.0	R 532.0	(s)	R 84.6				272.3	R 1,061.0	R 541.8	R 1,602.8
20		2.4	166.2	129.9	9.9	17.7	323.7	11.5	24.5	517.3	(s)	86.0					1,056.8	568.3	1,625.1
											. ,								

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>C</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, South Carolina

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	197	7	1,595	731	3,475	5,801				3,272			
1965 1970	130 138	12	1.178	1,121 1,404	2,606	4,904 5,814				4.371			
1970	138	19	2,400	1,404	2,011	5,814				7,347			
1975	72	18	1,695	1,382	858	3,935				9,837			
1980 1985	41 14	19 16	1,580 1,287	1,192 1,468	1,200 1,211	3,972 3,966				12,580 14,661			
1990	14	18	1,199	1,328	550	3,900				18,258			
1995	ż	25	692	1,662	550 470	3,077 2,824				21,392			
2000	0	29	482	1.797	514	2 793				25.270			
2005 2006	0	29 29 25	241 211	1,666 1,332	476 362	2,383 1,905				25,270 28,676			
2006	. 8	25	211	1,332	362	1,905				28.539			
2007	(s)	25 27	172 153	1,337 1,502	192 80	1,700				29,569 29,727			
2008	0	27	153	1,502	80	1,735				29,727			
2009 2010	0	27 32 27	158 149	1,425 1,615	79 123 55 20 23	1,661 1,887				29,556			
2011	0	27	111	1,288	55	1,453				32,852 30,802			
2012	ŏ	23	108	950	20	1.078				28.366			
2013	0	23 29	77	1,062	23	1,163				28,366 28,813			
2014	0	32 28 28		1.254	40	1 335				30.716			
2015	0	28	41 89 85 80 76 74	1,034	28 35	1,151 1,110				30,059			
2016	0	28	85	991	35	1,110				30,616			
2017 2018	0	26 32 30	80 76	1,058 1,168	16 27 23	1,155 1,270				29,225 31,852			
2019	0	30	74	1,020	23	1,117				31,160			
2020	ő	29	71	1,077	21	1,169				30,826			
2021	0	29 33 33	83	1,136	21 25	1,245				31,386			
2022	0	33	83	1,079	23	1,185				32,287			
							Trillion Btu						
1960	4.9	7.1	9.3	2.8 4.3 5.4	19.7	31.8	25.4	NA	NA	11.2	80.3	R 22.5	R 102.8
1965 1970	3.2 3.3	12.4	6.9 14.0	4.3	14.8	25.9	17.0	NA	NA	14.9	73.5	R 29.3 R 51.4	R 102.9
1970	3.3	19.5	14.0	5.4	11.4	30.8	9.8	NA	NA	25.1	88.4	H 51.4	H 139.7
1975	1.7	18.6	9.9	5.3	4.9	20.0	9.8	NA	NA	33.6	83.8	R 68.5	R 102.8 R 102.9 R 139.7 R 152.3 R 187.1 R 203.5 R 238.9 R 282.0 R 329.9
1980 1985	1.0 0.4	19.5 16.9	9.2 7.5	4.6 5.6	6.8 6.9	20.6 20.0	11.7 14.6	NA NA	NA NA	42.9 50.0	95.7 101.9	R 91.3 R 101.7	1 187.1 R 202 5
1900		18.9	7.3	5.1	3.1	15.2	14.0 5.0	0.1		62.3	101.9	R 136.4 R 161.0 R 193.9 R 214.5 R 216.0 R 221.0	R 238 g
1990 1995	(s) 0.1	18.9 25.8	7.0 4.0	6.4	3.1 2.7	13.1	5.9 8.9	0.1	(s) (s)	62.3 73.0	121.0	R 161.0	R 282.0
2000	0.0	29.9	2.8	6.9	2.9	12.6	7.1	0.1	(s)	86.2	136.0	R 193.9	R 329.9
2005	0.0	29.6	1.4	6.4	2.7 2.1	10.5	3.8	0.3	(s)	97.8	142.1	R 214.5	R 356.6 R 351.5 R 359.3
2006	0.2	25.9	1.2	5.1	2.1	8.4	3.4	0.3	(s)	97.4	135.5	H 216.0	H 351.5
2007	(s)	26.1	1.0	5.1	1.1	7.2	3.8	0.4	(s)	100.9	138.3	221.0	n 359.3
2008 2009	0.0 0.0	28.0 28.0	0.9 0.9	5.8 5.5	0.5 0.4	7.1 6.8	4.2 3.9	0.4 0.6	(s) (s)	101.4 100.8	141.2 140.2	R 215 7	H 365.4
2010	0.0	33.2	0.9	5.5 6.2	0.4	7.8	4.2	0.6	(S)	112.1	157.9	R 224.1 R 215.7 R 240.4 R 223.8 R 208.7	R 365.4 R 355.9 R 398.3 R 366.9 R 337.2
2011	0.0	27.4	0.6		0.7	5.9	4.1	0.6	(s)	105.1	143.1	R 223 8	R 366 9
2012	0.0	27.4 23.3	0.6	4.9 3.6	0.1	4.4	3.4	0.6	(s)	96.8	128.5	R 208.7	R 337.2
2013	0.0	29.2 32.7	0.4	4.1	0.1	4.7	4.4	0.6	_ (s)	98.3	137.3	R 207.7 R 223.6	R 345.0 R 371.5
2014	0.0	32.7	0.2	4.8	0.2	5.3	4.5	0.6	R (s)	104.8	147 9	R 223.6	R 371.5
2015	0.0	29.3	0.5	4.0	0.2	4.6	1.9	0.6	0.1 R 0.1 R 0.3	102.6	R 139.0 R 139.7 R 133.0	H 220.0	R 359.0 R 363.9 R 347.6
2016 2017	0.0 0.0	28.4 26.4	0.5 0.5	3.8	0.2	4.5	1.6 1.3	0.6	0.1 B 0.2	104.5 99.7	1139.7 B 122.0	H 224.2	B 247.6
2017	0.0	26.4 32.8	0.5	4.1 4.5	0.1 0.2	4.6 5.1	1.3	0.6 0.6	R 0.6	99.7 108.7	R 149 5	R 222 6	347.6 R 372.2
2019	0.0	32.0 31.1	0.4	3.9	0.2	4.5	1.6	0.6	Ros	106.7	R 149.5 R 145.0	R 213 9	R 372.2 R 358.9
2020	0.0	30.0	0.4	4.1	0.1	4.7	R <sub>11</sub>	0.6	R 0.9 R 1.1	105.2	R 142.5	R 205.5	R 348.0
2020 2021	0.0 0.0	30.0 34.2	0.4 0.5	4.1 4.4	0.1 0.1	4.7 5.0	R 1.0	0.6	R 1.1	105.2 107.1	R 142.5 R 149.0	R 223.6 R 224.2 R 214.6 R 222.6 R 213.9 R 205.5 R 213.1	R 348.0 R 362.1 374.4
2022	0.0	34.5	0.5	4.1	0.1	4.8	1.3	0.6	1.3	110.2	152.6	221.7	374.4

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, South Carolina

					Pe	troleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>	WI		Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	137	5	474	358 549	93	275	176	1,377	NA			NA	1,957			
1965 1970	98 108	7 14	350 714	549 688	93 70	301 204	121 80	1,391 1,740	NA NA			NA NA	2,531 4,237			
1970	169	17	504	678	23	204	160	1,740	NA NA			NA NA	4,237 7,121			
1980	156	23 15	481	584	54 23 25 48	240	35 80 17	1.365	NA			NA	8.705			
1985 1990	51 5	15	939 721	720 651	48 12	230 256	80 17	2,017 1,658	NA 2			NA (s)	9,778 12,693			
1995	15	19	1,002	815	26	32	38	1,913	3			(s)	14,863			
2000 2005	0	22	759 621	881 735	54 27	35 34	50 77	1,780 1,495	1			(s)	18,434 20,498			
2006	80	22 21 21	694	724	27	35	17	1,496	2			(s)	20,923			
2007 2008	(s) 12	21 22	692 641	676 841	18 18	35 35	14	1,437 1,536	1			(s) (s)	21,746 21,676			
2009	3	22	511	546	6	35	(s)	1,099	i			(s)	21,440			
2010	2	22 24	604	707	18	35	`ó	1,364	,1			(s)	22,320			
2011 2012	0 (s)	22 21	555 527	640 711	5 2	35 34	1 0	1,235 1,274	(s) (s)			1	21,593 21,251		 	
2013	(s) 0	24	498	651	1	36	Ŏ	1,185	`4			1	21,120			
2014 2015	0 0	25 24	533 555	783 695	1	34 1.171	2 6	1,353 2,427	3 2			1 2	21,656 21,927			
2016	0	24	618	678	1	1,221	14	2,533	2			10	22,275			
2017	0	23	614	784	1 3	1,236	2	2,637	1 2			33	21,758			
2018 2019	0	26 26	603 571	675 674	3	1,301 1,300	30 (s)	2,612 2,547	2			64 79	22,233 22,168			
2020	Õ	24	528	672	2	1,304	(s) 5	2,513	3			76	20,834			
2021 2022	0	26 26	529 524	753 753	2 2	1,313 1,466	12 12	2,608 2,756	2			84 99	21,114 24,131		 	
			021	700		1,100		,	lion Btu				21,101			
1960	3.4	4.8	2.8	1.4	0.5	1.4	1.1	7.2	NA	0.5	NA	NA	6.7	22.6	R 13.5	R 36.1
1965	2.4	7.3	2.0	2.1	0.4	1.6	0.8	6.9	NA	0.3	NA	NA	8.6	25.6	m 17 N	R 42 6
1970 1975	2.6 4.0	14.2 17.6	4.2 2.9	2.6 2.6	0.3 0.1	1.1 1.2	0.5 1.0	8.7 7.9	NA NA	0.2 0.2 0.3	NA NA	NA NA	14.5 24.3	40.1 53.9	R 29.6 R 49.6	R 69.7 R 103.5
1980	3.8	23.6	2.8	2.2	0.1	1.3	0.2	6.7	NA	0.3	NA	NA	29.7	64.1	R 63.2	R 127.3 R 128.7
1985 1990	1.3 0.1	15.7 15.8	5.5 4.2	2.8 2.5	0.3 0.1	1.2 1.3	0.5 0.1	10.2 8.2	NA (s)	0.3 2.8	NA 0.0	NA (s)	33.4 43.3	60.9 70.3	R 67.8 R 94.9	H 128.7 R 165.2
1995	0.4	19 4	5.8	3.1	0.1	0.2	0.1	9.5	(s)	3.6	0.0	(s)	50.7	R 83.5	n 111 q	R 195.4
2000	0.0	22.7	4.4	3.4	0.3	0.2	0.3	9.5 8.6	(s)	3.6 3.5	0.0	(s)	62.9	97.7	R 141.4 R 153.3	R 195.4 R 239.1 R 255.3
2005 2006	0.0 1.9	22.9 21.5	3.6 4.0	2.8 2.8	0.2 0.2	0.2 0.2	0.5 0.1	7.3 7.2	(s) (s)	1.9 1.8	0.0 0.0	(s) (s)	69.9 71.4	102.0 103.9	H 153.3	R 262 2
2007	(s) 0.3	21.7	4.0	2.6	0.1	0.2	0.1	7.0	(s)	1.8	0.0	(s)	74.2	104.7	R 158.4 R 162.5	R 262.2 R 267.2
2008 2009	0.3 0.1	23.0 22.6	3.7 3.0	3.2 2.1	0.1	0.2 0.2	(s) (s)	7.2 5.3 6.5	(s) (s)	1.8	0.0 0.0	(s) (s)	74.0 73.2	106.3 102.6	R 163.4 R 156.5 R 163.3	R 269.7 R 259.1
2010	0.1	24.7	3.5	2.7	(s) 0.1	0.2	0.0	6.5	(s)	1.4 0.5	0.0	(s)	76.2	107.9	R 163.3	R 259.1 R 271.2
2011	0.0	22.6	3.2	2.5	(s) (s)	0.2	(s) 0.0	5.9 6.0	(s)	0.5 0.5	0.0	(s)	73.7	102.7	R 156.9 R 156.3	R 259.5 R 257.1
2012 2013	(s) 0.0	21.8 24.3	3.0 2.9	2.7 2.5	(S)	0.2 0.2	0.0	5.6	(s) (s)	0.5	0.0 0.0	(s) (s)	72.5 72.1	100.8 102.5	H 152 3	H 254 7
2014	0.0	26.0	3.1	3.0	(s)	0.2	(s) (s)	6.3	(s)	0.6	0.0	(s)	73.9	106.7	R 157 6	n 264 3
2015 2016	0.0 0.0	24.5 24.5	3.2 3.6	2.7 2.6	(s) (s)	5.9 6.2	(s) 0.1	11.8 12.4	(s) (s)	0.3 0.3	0.0 0.0	(s) R (s)	74.8 76.0	111.4 R 113.2	R 160.5 R 163.1	R 271.9 R 276.3
2017	0.0	23.9	3.5	3.0	(s)	6.2	(s) 0.2	12.8	(s)	0.2	0.0	R (s) R 0.1	74.2	R 111 3	R 163.1 R 159.8 R 155.4	R 271.1
2018 2019	0.0 0.0	26.2 26.4	3.5 3.3	2.6 2.6	(s) (s)	6.6 6.6	0.2	12.8 12.5	(s) (s)	0.3 0.2	0.0 0.0	R 0.2 R 0.3	75.9 75.6	R 115.4 R 115.0	R 155.4 R 152.2	R 270.8 R 267.2
2020	0.0	24.6	3.0	2.6	(s)	6.6	(s) (s)	12.3	(s)	0.3	0.0	R 0.3	71.1	H 108.5	R 138.9	R 247.4
2021	0.0	26.7	3.0	2.9	(s)	6.6	0.1	12.7	(s)	0.2	0.0	H 0.3	72.0	H 111.9	R 143.4	R 255.3
2022	0.0	26.8	3.0	2.9	(s)	7.4	0.1	13.4	(s)	0.2	0.0	0.3	82.3	123.1	165.7	288.8
2.1		antal gassaus fus								iala fram which					17.15.4	201 11 1 1000

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, South Carolina

					Petrol	eum				Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>C</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet	,		Thousand	i barrels	,		Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960 1965	1,758 1,835	23 47	1,959 1,748	273	614	3,392 2,438	3,022 2,652	9,261 7,771	97				NA	6,234 7,450			
1965	1,835	47	1,748	415	517	2,438	2,652	7,771	79 37				NA	7,450			
1970 1975	1,861 1,200	79 70	2,655 2,040	775 1,066	332 209	1,608 2,687	2,865 3,232	8,234 9,233	48				NA NA				
1980	1.805	92	1.875	1.368	96	4.245	3,159	10 743	49				NA	15 979			
1985	2,525	92 63 87	1,897 2,317	834	702	2,233	3,184	8,851 9,959	49				NA	21,829 24,701			
1990 1995	2,310	87 98	2,317 1,904	849 1,272	703 426	1,888 2,111	4,202 4,915	9,959 10,627	0				(s)	24,701 28,819			
2000	2,188 1,912	97	2,242	2,304	333	1,734	5,958	12,570	0				(s) (s)	28,819			
2005	1,504	74	3,071	1,096	1,033	3,328	8,889	17,417	ŏ				(s)	32,080			
2006	1,439	77	2,533	1,068	1,086	1,828	9,560	16,074	0				(s)	31,416			
2007 2008	1,270 1,149	76 72	2,286 2,227	756 579	713 763	1,603 1,034	8,292 7,583	13,650 12,186	0				(s) (s)	30,632 29,247			
2008	1,149	65	1,669	616	763 744	919	7,583 8,802	12,186	0				(S)	29,247 25 421			
2010	896 923	73	1,470	623	518	667	6,105	9,384	ŏ				(s)	25,421 27,307			
2011	911	77	1,412	644	507	524	4 900	7,987	0				(s)	28.094			
2012 2013	506 504	81 84	1,698 1,182	510 540	524 550	328 175	4,882 5,037	7,942	0				(s) (s)	28,164 28,669			
2013	549	83	1,182	679	463	183	5,037	7,484 8.072	0				(S)	29,248			
2015	439	85	1,618	646	595	66	6.290	9 214	ŏ				(s) (s) 2	29,342			
2016	324	88	1,747	690	594	181	H 6 010	R 9.222	0				ĺź	26,687			
2017	251	92	1,983	562	600	51	R 4,736	R 7,932	0				13	27,114			
2018 2019	200 161	96 98	2,049 2,032	637 535	618 619	146 57	4,595 R 4,714	R 8,045 R 7,958	0				22 30	27,556 26,877			
2020	136	95	2,215	540	625	154	R 3.713	R 7.247	ŏ				44	25,077			
2021	130	100	1,868	601	616	89	R 3,749	R 6,923	Ō				47	27,292			
2022	93	99	1,888	683	642	91	3,296	6,601	0				46	26,341			
									Trillion Bt								
1960	44.7	23.3	11.4	1.0	3.2	21.3	18.8	55.8	R <sub>0.3</sub>	17.3	NA	NA	NA	21.3	R 162.6	R 42.9	R 205.5
1965 1970	46.2 44.2	48.7 80.9	10.2 15.5	1.6 2.8	2.7 1.7	15.3 10.1	16.7 18.4	46.5 48.6	R 0.3 R 0.1	23.2 31.0	NA NA	NA NA	NA NA	25.4 34.5	R 190.4 R 239.3	R 50.0 R 70.7	R 240.4 R 310.0
1975	28.2	72.0	11.9	3.8	1.1	16.9	20.8	54.4	R 0.2	31.9	NA NA	NA NA	NA NA		R 230.1	R 88.9	R 319.1
1980	44.0	95.1	10.9	4.8	0.5	26.7	19.7	62.6	R 0.2	27.7	NA	NA	NA	54.5	<sup>R</sup> 284.2	n 116.0	n 400.1
1985	62.8	64.8	11.1	2.9	3.7	14.0	19.8	51.4	R 0.2		0.0	NA	ŅĄ		R 286.1	R 151.4	R 437.4
1990 1995	58.0 55.1	89.3 101.0	13.5 11.1	2.9 4.4	3.7 2.2	11.9 13.3	26.3 30.9	58.3 61.9	0.0 0.0	63.0 76.5	0.0 0.0	0.0 0.0	(s)	84.3 98.3	352.9 392.7	R 184.6 R 217.0	R 537.5 R 609.7
2000	50.2	100.1	13.0	7.9	1.7	10.9	37.7	71.3	0.0	66.1	0.0	0.0	(s)	113.6	401.3	R 255 5	R 656.8
2005	38.8	76.8	17.9	3.8	5.4	20.9	53.9	101.8	0.0	61.9	0.0	0.0	(s)	109.5	388.8	R 240.0	H 628.7
2006	37.0	80.1	14.7	3.7	5.6	11.5	57.6	93.1 79.4	0.0	68.2	(s) 0.1	0.0	(s)	107.2	385.6 363.1	R 237.8 R 228.9	R 623.4 R 592.1
2007 2008	32.9	79.1 74.3	13.2 12.9	2.6 2.0	3.7 3.9	10.1 6.5	49.9 45.3	79.4 70.5	0.0 0.0	67.2 67.7	0.1	0.0 0.0	(s)	104.5 99.8	363.1 342.1	R 228.9 R 220.5	R 592.1
2009	29.7 23.2 23.9	66.7	9.6	2.0	3.8	5.8	40.3 52.5	73.8	0.0	65.8	(s)	0.0	(s)	86.7	316.2	R 185 5	R 501.7
2010	23.9	75.1	8.5	2.0 2.4	2.6	4.2	52.5 37.0	54.7	0.0	77.9	(s)	0.0	(s)	93.2	324.8	R 185.5 R 199.8	R 524.6
2011	23.2	78.6	8.1	2.5	2.6	3.3	30.0	46.5	0.0	87.1	(s)	0.0	(s)	95.9	331.3	R 204.1	R 535.4 R 534.2
2012	12.9	82.7	9.8	2.0	2.7	2.1	29.6	46.0	0.0	89.3	(s)	0.0	(s)	96.1	327.1	R 207.2 R 206.7	H 534.2 R 532.7
2013 2014	13.3 14.4	85.2 85.4	6.8 8.6	2.1 2.6	2.8 2.3	1.1 1.1	30.4 31.7	43.2 46.3	0.0 0.0	86.4 90.3	(s)	0.0 0.0	(s) (s)	97.8 99.8	326.0 336.2	R 212.9	R 549.1
2014	11.3	87.5	9.3	2.5	3.0	0.4	37.8	53.0	0.0	84.3	(s)	0.0	(s)	100.1	336.3	R 214.7	R 551.0
2016	8.4	90.9	10.1	2.5 2.7	3.0	1.1	36.4	53.3	0.0	85.3	0.0	0.0	(s) R (s) R 0.1	91.1	329 0	R 214.7 R 195.4	H 524.4
2017	6.7	95.2	11.4	2.2	3.0	0.3	R 29.5	R 46.4	0.0	88.4	0.0	0.0	R (s)	92.5	R 329.2	R 199.1 R 192.6	R 528.4
2018 2019	5.3 4.3	99.0 100.2	11.8 11.7	2.4 2.1	3.1 3.1	0.9 0.4	28.4	46.7 R 46.7	0.0	86.9 85.8	0.0	0.0	R 0.1	94.0 91.7	R 331.9 R 328.8	<sup>R</sup> 192.6 R 184.5	R 524.5 R 513.2
2019	4.3 3.5	98.1	11.7	2.1	3.1	1.0	R 23.3	42.2	0.0	85.8 81.9	0.0	0.0	B 0.2	91.7 85.6	R 311 5	R 167 2	R 478 7
2021	3.4	102.9	10.8	2.1 2.3	3.1	0.6	29.4 R 23.3 R 23.4	R 40.1	0.0	83.4	0.0	0.0	R 0.2	93.1	R 323.1	H 185.3	H 508.4
2022	2.4	102.2	10.9	2.6	3.2	0.6	21.0	38.3	0.0		0.0	0.0	0.2		317.5	180.9	498.4

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014

and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, South Carolina

)							Pe	etroleum							
J		Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
•	Year	Thousand short tons	Billion cubic feet	·			Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1	1960	30	1	215	1,196	13	3 131	280	17 205	1,139	23 188	0			
-	1965	6	2	354	1,556 2,899	13 12	3,131 2,958	289 243	17,205 20,612	1,313	23,188 27,048	0			
	1970	3 (s)	3	228	2,899	60 70	3,170	237	28,220	1,605	36,420	0			
	1975 1980	0	3	142 149	4,019 6,156	79 33	2,692 3,062	213 261	34,995 35,181	419 844	42,560 45,686	0			
,	1985	0	2	136	7,949 10,512	140	3,184 2,939	237	36,787 42,305	606	49,039 56,713	0			
	1990 1995	0	3	101 123	10 703	140 87 77	1 027	237 267 255	46 515	502 432	56,713 59,133	0			
<b>A</b>	2000	Ö	3	76	14,791 17,283	55 110	1,861 1,609	272 230	52,672 58,235 60,658	373	70,100 79,125	Ö			
	2005 2006	0	2 2	97 109	17,283	110 120	1,609 1,805	230 224	58,235	1,562 1,715	79,125 82,783	0			
(	2007	0	3	108	18,151 18,412	88	1.881	231	60,580	1,713	82 863	0			
	2008	0	3	71 94	16,512 16,139	165 110	1,751 1,076	231 214 193	60,580 61,555 64,623	1,563 1,424 1,831	81,693 84,065	0			
)	2009 2010	0	3	94 80	16,139 18,019	110 23	1,076 3,078	193 481	64,623 62 479	1,831 2 185	84,065 86,346	0			
	2011	Ō	3	80 70	18,019 18,130 15,806	23 26	3,078 2,697	481 462	62,479 60,679	2,185 2,672	86,346 84,737 82,512	Ő			
-	2012	0	3	42	15,806	24	2.422	409	61.621	2.189	82,512	0			
	2013 2014	0	2	57 52	18,609 17,712	29 21	2,238 2,614	455 449	62,864 62,662	1,545 962	85,776 84,471	0			
	2015	0	3	52	18 600	29	2.700	513	65.027	1 650	88,570	0			
1	2016 2017	0	3 2	37 52 52 53 56	20,039 19,959	40 62	2,919 3,170	R 495 R 459	66,117 66,594	1,500 2,373	88,570 R 91,163 R 92,673	0			
1	2018	Ö	3	60	20 520	61 51	3.403	R 436	65.384	2,388	n 92 261	Ö			
	2019	0	2	67	21,551	51	3,569	H 416	65,571	2,388 133 32	R 91,357 R 82,117	0			
•	2020 2021	0	2 3	60 67 58 67	21,551 20,699 R 20,734	57 51	2,938 3,279	R 436 R 416 R 372 R 403	57,961 63,732	1,681	R 90,078	0			
	2022	Ö	3	69	20,044	71	3,125	412	62,009	1,723	87,561	Ō			
									illion Btu						
	1960	0.8	1.3	1.1	7.0	0.1	16.8	1.8	90.4	7.2	124.2	0.0	126.2	0.0	126.2
	1965 1970	0.2 0.1	2.4 3.4 2.7	1.8 1.2	9.1 16.9	(s) 0.2	15.8 17.1	1.5 1.4	108.3 148.2	8.3 10.1	144.7 195.2	0.0 0.0	147.3 198.6	0.0 0.0	147.3 198.6
	1975	(s)	2.7	0.7	23.4	0.3	14.5	1.3	183.8	2.6	226.7	0.0	229.4	0.0	229.4
	1980 1985	0.ó 0.0	3.1 2.3	0.8 0.7	35.9 46.3	0.1 0.5	16.6 17.2	1.6 1.4	184.8 193.2	5.3 3.8	245.0 263.3	0.0 0.0	248.1 265.6	0.0 0.0	248.1 265.6
	1985	0.0	2.3	0.7	61.2	0.5	16.0	1.4	222.2	3.2	305.1	0.0	308.6	0.0	308.6
	1995	0.0	2.9 3.0	0.6	62.3	0.3	5.8	1.6 1.5 1.7	222.2 242.1 273.9	2.7 2.3	305.1 315.3 375.2	0.0	318.4	0.0	318.4
	2000 2005	0.0 0.0	3.6	0.4 0.5	86.1 100.5	0.2 0.4	10.6 9.1	1./ 1.4	2/3.9 302.4	2.3 9.8	3/5.2 424.2	0.0 0.0	378.7 426.7	0.0 0.0	378.7 426.7
	2006	0.0	2.4	0.6	105.3	0.5	10.2	1.4	314.5	10.8	443.2 440.8	0.0	445.7	0.0	445.7 443.6
	2007 2008	0.0 0.0	2.5 2.4 2.7 2.7	0.5 0.4	106.5 95.4	0.3 0.6	10.7 9.9	1.4 1.3	311.5 314.3	9.8	440.8 430.9	0.0 0.0	443.6 433.7	0.0 0.0	443.6 433.7
	2008	0.0	2.7	0.5	93.4 93.2	0.6	9.9 6.1	1.3	328.9	9.0 11.5	430.9 441.8	0.0	444 8	0.0	433.7 444.8
	2010	0.0 0.0	2.9 3.5	0.4	93.2 104.1	0.1	6.1 17.5	1.2 2.9	328.9 316.6	13.7	441.8 455.2	0.0 0.0	458.8	0.0	444.8 458.8
	2011 2012	0.0 0.0	3.5	0.4 0.2	104.6	0.1 0.1	15.3	2.8	307.2 311.9	16.8 13.8	447.2	0.0	450.7 436.8	0.0 0.0	450.7 436.8
	2013	0.0	3.5 2.6	0.2	91.2 107.2	0.1	13.7 12.7	2.5 2.8	318.1	9.7	433.4 450.8	0.0 0.0	453.4	0.0	436.8 453.4
	2014	0.0	2.5	0.3	102.1 107.2	0.1	14.8 15.3	2.7 3.1	317.0	6.0	443.0	0.0	445.5	0.0	445.5 467.8
	2015 2016	0.0 0.0	2.5 2.7 2.9	0.3 0.3 0.3	107.2 115.4	0.1 0.2	15.3 16.6	3.0	328.8 334.2	10.4 9.4	443.0 465.2 479.0	0.0 0.0	467.8 481.9	0.0 0.0	467.8 481.9
	2017	0.0	2.4	0.3	114.9	0.2	18.0	2.8 R 2.6	336.5	14.9	487.6	0.0	490.0	0.0	490.0
	2018 2019	0.0 0.0	2.9 2.4	0.3 0.3	118.2 124.1	0.2 0.2	19.3 20.2	H 2.6	330.5 331.3	15.0 0.8	486.2 479.5	0.0 0.0	489.1 481.9	0.0 0.0	489.1 481.9
	2020	0.0	21	0.3	119.1	0.2	16.7	2.5 R 2.3	292.8	0.2	431.6	0.0	433.6	0.0	433.6
	2021 2022	0.0	R 2.8 2.7	0.3 0.3	119.1 R 119.5	0.2 0.3	18.6 17.7	2.4 2.5	321.8 313.1	10.6 10.8	431.6 R 474.2 460.9	0.0 0.0	R 477.0 463.6	0.0	R 477.0
	2022	0.0	2.7	0.3	115.6	0.3	1/./	2.5	313.1	10.8	460.9	0.0	463.6	0.0	463.6

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, South Carolina

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wasal	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million ki	owatthours	Wood and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
960	1 596	23	9	0	24	33	0	3,513		0	NA	NA	0	
960 965 970	1,596 2,690 3,708	23 19 45 15 5	16	ŏ	44	33 60		3,438 2,256		ő	NA	NA	ŏ	
970	3.708	45	16 756	ŏ	44 2,042	2,798	75 7	2,256		Ŏ	NA	NA	Ŏ	
975 980 985	4 401	15	118	0	4,400 2,080	4.517	19,458	4,366 2,976		0	NA	NA	0	
980	7,927		567	Ó	2,080	2,647	17,404	2,976		0	NA	NA	0	
985	7.888	(s <u>)</u>	567 183	0	1	184	31,826	1.786		0	0	0	0	
990	9,131 10,074	7	117	0	8	125 268 772	42,881 49,173	3,296 3,454		0	0	0	0	
95	10,074	7	200	0	68	268	49,173	3,454		0	0	0	0	
000	15,034	9	606	0	166	772	50,888	1,533		0	0	0	0	
05	15,793	45	332	443	72	846	53,138	2,936		0	0	0	0	
990 995 900 905 906	15,761 16,524	45 50 51	117 200 606 332 223 318	24	29 45	276 364	50,797 53,200	1,805 1,555		0	0	0	0	
07	16,524	51	318	0	45	364	53,200	1,555		0	0	0	0	
800	16,879 14,071 15,411	46	167 179 226	92	4	264	51 763	1,123 2,331 2,375		0	0	0	0	
008 009 010	14,071	74 87	179	629 45	35 11	844 281	52,150 51,988	2,331		0	0	0	0	
)10	15,411	87	226		11	281	51,988	2,375		0	0	0	0	
11	13,970	100	167	Ō	Ō	167	52,903	1,554		0	0	0	Ō	
)12 )13	11,658 9,973	100 116 94 87	180 182 472	0	0	180 182	52,903 51,145 54,252	1,420		0	0	0	0	
13	9,973	94	182	0	0	182	54,252	3,156		0	(s)	0	0	
14	11,797	. 87	472	0	0	472	52,419	2,566		0	5	0	0	
15	9,277 8,683	136	343 168	0	0	343	53,156	2,562 2,224		0	4	0	0	
15 16 17	8,683	136 134 136	168	0	0	168 182	55,826 54,345	2,224		0	5	0	0	
1/	7,648	136	182	0	0	182	54,345	1,834		0	80	0	0	
18 19	8,282 6,474	174 183	585 143	0	0	585 143	52,716	3,011 2,974		0	510 855	0	0	
119	6,474	183	143	0	0	143	56,103	2,974		0	855	0	0	
20	5,555	183	128	0	0	128	54,751	3,859		0	1,718	0	0	
)21 )22	6,534 6,081	178 189	154 347	0	0	154 347	53,771 54,370	2,542 2,180		0	2,276 2,416	0	0	
)22	0,001	109	347	U	U			2,100		U	2,410	U	0	
							Trillion Btu	D						
960 965 970 975	42.7	24.1	0.1	0.0	0.2	0.2	0.0	R 12.0	0.0	0.0	NA	NA	0.0	R <sub>7</sub>
165	69.5	19.6 46.3 15.0	0.1	0.0	0.3	0.4	0.9	R 11.7	0.0	0.0	NA	NA	0.0	R 11 R 11 R 3 R 4 R 5 R 7
70	90.0 106.3	46.3	4.4	0.0	12.8 27.7	17.2	0.1	R 7.7 R 14.9	0.0	0.0	NA	NA	0.0	n 10
/5	106.3	15.0	0.7	0.0	27.7	28.3	214.3	'' 14.9	0.0	0.0	NA	NA	0.0	II 3
80	196.9 198.2	5.6 0.5	3.3 1.1	0.0 0.0	13.1	16.4 1.1	189.8 338.1	R 10.2 R 6.1 R 11.2 R 11.8	0.0	0.0 0.0	NA 0.0	NA 0.0	0.0 0.0	H 4
00		0.5	1.1	0.0	(s)	1.1	330. I	B 4 4 .0	0.0					B 7
80 85 90 95	231.0 259.0	7.1 6.8	0.7 1.2	0.0 0.0	(s) 0.4	0.7 1.6	453.8 516.7	H 11.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 7
90 00	382.0	8.8	1.2	0.0	1.0	4.6	530.7	R 5 2	0.0	0.0	0.0	0.0	0.0	B o
00	392.3	46.6	3.5 1.9 1.3	2.5	0.5	4.9	554.5	B 10.0	6.9	0.0	0.0	0.0	0.0	B 1 0
05 05	393.0	40.0 52.2	1.9	0.1	0.5	1.6	530.1	R 6 2	6.9	0.0	0.0	0.0	0.0	Ro
77	411.1	52.2 50.7	1.0	0.0	0.2	2.1	558.0	R 5 2	6.4	0.0	0.0	0.0	0.0	R 1 0
00 05 06 07 08	415.4	52.2 52.7 47.8	1.8 1.0	0.0	(e)	1.5	541.0	R 5.2 R 10.0 R 6.2 R 5.3 R 3.8	6.8	0.0	0.0	0.0	0.0	R 1,0
09	348.7	77.1	1.0	3.6	(s) 0.2	4.9	545.4	Ran	8.5	0.0	0.0	0.0	0.0	R'a
10	381.1	89.5	1.3	3.6 0.3 0.0	0.1	1.6	543.4	R 8.0 R 8.1 R 5.3 R 4.8	8.8	0.0	0.0	0.0	0.0	R 1 0
09 10 11	381.1 342.9	89.5 103.3	1.0	0.0	0.0	1.0	553.6	R 5.3	8.9	0.0	0.0 0.0	0.0	0.0	R 1 0
12	285.7	119.1	1.0	0.0	0.0	1.0	536.0	R <sub>4</sub> g	10.7	0.0	0.0	0.0	0.0	Ř,ů
13	244.1	95.7	1.1	0.0	0.0	1.1	566.9	R 10 8	11.7	0.0	(s)	0.0	0.0	Ro
12 13 14	291.3	89.5	27	0.0	0.0	2.7	548.2	R 10.8 R 8.8 R 8.7	16.1	0.0	(s)	0.0	0.0	H 7 9 R 1,0 R 1,0 R 1,0 R 1,0 R 1,0 R 1,0 R 1,0 R 1,0 R 1,0 R 1,0
15	229.9	140.1	2.7 2.0	0.0	0.0	2.0	555.9	R 8.7	17.1	0.0	\s\ \s\	0.0	0.0	Rg
16	213.4	137.4	1.0	0.0	0.0	1.0	583.9	R 7 6	16.3	0.0	(s)	0.0	0.0	R 9 R 9 R 9 R 9
16 17	186.0	139.6	1.0	0.0	0.0	1.0	568.4	R 7.6 R 6.3	17.1	0.0	R 0.3	0.0	0.0	Rg
18	186.0 199.9	178.1	3.4	0.0	0.0	3.4	551.2	H 10 2	16.2	0.0	(s) R 0.3 R 1.7	0.0	0.0	Rg
19	156.4	187 7	0.8	0.0	0.0	0.8	585.8	R 10.1	16.2	0.0	R 2.9	0.0	0.0	Rg
)19 )20	133.8	187.7 188.5	0.8 0.7	0.0	0.0	0.8 0.7	585.8 571.9	R 13.2	15.4	0.0	R 2.9 R 5.9	0.0	0.0	Rg
)21	159.2 148.6	183.4 195.1	0.9 2.0	0.0 0.0	0.0 0.0	0.9	R 560.8	R 10.1 R 13.2 R 8.7 7.4	14.6	0.0	R 7.8	0.0 0.0	0.0	R g
22		105.1	0.0	0.0	0.0	2.0	567.0	2.,	15.4	0.0	8.2	0.0	0.0	9,

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, South Dakota

Thousand barrels   Thousand ba							Petroleum								
		Coal			HGL <sup>c</sup>				Other <sup>f</sup>	Total		electric	Wind		Biodiesel
1870 388 88 4.378 2.712 1,1737 9,003 328 1,773 10,666 0 6,579 0 MA 1972 312 34 4,658 2,149 1,137 10,009 12,00 1,000 10,00	Year						Thousand barrels				М	illion kilowatthou	rs	Thousan	d barrels
1970 388 86 4 4376 2.712 1.173 9.003 328 1.777 10.666 0 6.579 0 NA 11.071 10.091 1.772 12.2 34 4.588 2.149 1.773 9.003 328 1.775 10.666 0 0 7.742 0 NA 11.071 10.09	1960	374	25	2.941	1.370	1.145	8.561	102	1.999	16.118	0	1.156	0	NA	NA
1972 312 34 4.588 3.149 1.138 1.0771 3.34 1.290 21.226 0 7.452 0 NA 1976 1.888 33 3.441 2.920 1.072 10.991 2.234 1.138 1.955 0 4.686 0 NA 1976 1.888 33 3.441 2.930 1.056 10.636 218 1.104 19.784 0 7.562 0 NA 1976 1.888 33 3.441 2.930 1.056 10.636 218 1.104 19.784 0 7.562 0 NA 1977 2.242 3.343 3.0277 1.011 10.944 3077 1.277 1.027 0 7.002 0 NA 1978 2.287 2.24 2.24 4.801 2.250 1.056 10.636 1.057 1	1965	310	27	3,766	1,541	1,111	8,955	71	1,437	16,881	Ö	3.872	0	NA	NA
1972 312 34 4,536 3,149 1,138 10,771 343 1,290 21,226 0 7,432 0 NA 1976 1,888 33 3,844 2,250 10,772 10,505 223 1,153 1,555 0 6,466 0 NA 1976 1,888 33 3,844 2,590 1,056 10,656 218 1,104 19,784 0 7,562 0 NA 1977 2,882 39 3,344 3,027 1,011 10,944 307 1,121 19,784 0 7,562 0 NA 1978 2,583 39 3,344 3,027 1,011 10,944 307 1,121 19,784 0 7,562 0 NA 1978 2,583 39 3,344 3,027 1,011 10,944 307 1,121 19,784 0 7,562 0 NA 1978 2,583 39 3,344 3,027 1,011 10,944 307 1,121 19,784 0 7,562 0 NA 1978 2,583 39 3,344 3,027 1,011 10,944 307 1,121 19,784 0 7,562 0 NA 1979 2,771 26 6,599 2,43 1,238 11,137 283 1,233 22,177 0 6 6,699 2,415 1,104 19,784 1,104 19	1970 1971	338 335	36 32	4,375 4,610	2,712 2,675	1,1/3 1 207	9,903 10,244	328 211	1,175 1,221	19,666 20 168		6,579 7.778			NA NA
1979 2.771 26 6.359 2.453 1.326 10.772 221 1.089 22.219 0 6.359 0 NA 1980 2.267 24 4.801 1.509 1.1318 8.060 10.78 1980 2.768 25 4.414 1.1209 1.1318 8.060 10.80 10	1972	312	34	4 536	3.149	1,138	10,771	343	1,290	21,226	•	7.432		NA	NA
1979 2.771 26 6.359 2.453 1.326 10.772 221 1.089 22.219 0 6.359 0 NA 1980 2.267 24 4.801 1.509 1.1318 8.060 10.78 1980 2.768 25 4.414 1.1209 1.1318 8.060 10.80 10	1973 1974	385 446	31 32	4,243 3,691	2,922 2,780		10,989 10,702	234 133	1,518 1 143	20,977 19,550	0	4,837 5,661	0		NA NA
1979 2.771 26 6.359 2.453 1.326 10.772 221 1.089 22.219 0 6.359 0 NA 1980 2.267 24 4.801 1.509 1.1318 8.060 10.78 1980 2.768 25 4.414 1.1209 1.1318 8.060 10.80 10	1975	1,888	33	3,841	2,930	1,056	10,636	218	1,104	19,784	•	7,927		NA	NA
1979 2.771 26 6.359 2.453 1.326 10.772 221 1.089 22.219 0 6.359 0 NA 1980 2.267 24 4.801 1.509 1.1318 8.060 10.78 1980 2.768 25 4.414 1.1209 1.1318 8.060 10.80 10	1976	2,838	39 36	3,334	3,027		10,944	307	1,217	19,840	•	7,052 5,294		NA NA	NA NA
1981   2,789   22   4,414   1,779   1,138   9,192   158   8082   17,487   0   5,206   0   39   1984   2,746   23   5,106   2,291   1,138   9,192   158   8082   17,487   0   5,226   0   34   1984   2,749   25   5,106   1,019   1,024   8,885   91   1,079   17,204   0   5,722   0   93   1986   2,281   23   6,239   1,567   516   9,004   60   1,077   18,463   0   5,736   0   138   1986   2,281   23   6,239   1,567   516   9,004   60   1,077   18,463   0   5,736   0   138   1986   2,281   23   6,386   3,6823   1,567   516   9,004   60   1,077   18,463   0   5,736   0   138   1987   1,014   21   6,326   2,358   669   3,016   55   134   13,553   0   5,386   0   144   1989   2,541   26   6,889   3,623   1,024   9,126   66   1,038   10,076   0   4,583   0   143   1999   2,571   25   5,593   3,691   1,097   3,896   60   1,054   20,228   0   3,334   0   142   1991   2,863   26   5,827   1,794   367   9,119   67   1,001   18,175   0   3,828   0   325   1994   2,670   27   5,455   1,504   1,272   3,455   1,435	1978	3,004	35	3.718	3,192	1,334	11,417	283	1.233	21,177	Ö	6,831	Ö	NA	NA
1981   2,789   22   4,414   1,779   1,138   9,192   158   8082   17,487   0   5,206   0   39   1984   2,746   23   5,106   2,291   1,138   9,192   158   8082   17,487   0   5,226   0   34   1984   2,749   25   5,106   1,019   1,024   8,885   91   1,079   17,204   0   5,722   0   93   1986   2,281   23   6,239   1,567   516   9,004   60   1,077   18,463   0   5,736   0   138   1986   2,281   23   6,239   1,567   516   9,004   60   1,077   18,463   0   5,736   0   138   1986   2,281   23   6,386   3,6823   1,567   516   9,004   60   1,077   18,463   0   5,736   0   138   1987   1,014   21   6,326   2,358   669   3,016   55   134   13,553   0   5,386   0   144   1989   2,541   26   6,889   3,623   1,024   9,126   66   1,038   10,076   0   4,583   0   143   1999   2,571   25   5,593   3,691   1,097   3,896   60   1,054   20,228   0   3,334   0   142   1991   2,863   26   5,827   1,794   367   9,119   67   1,001   18,175   0   3,828   0   325   1994   2,670   27   5,455   1,504   1,272   3,455   1,435	1979	2,771	26	6,359	2,453	1,326	10,772	221	1,089	22,219		6,359		NA NA	NA NA
1988   2,591   24   6,450   1,579   875   9,175   85   1,141   19,304   0   5,286   0   141   1999   2,541   26   5,899   3,623   1,024   9,126   66   1,058   20,765   0   3,934   0   142   1991   2,863   26   5,827   1,794   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   3,274   1,	1981	2.759	22	4.414	1,779	1.136	9.192	158	808	17.487		5.306		19	NA
1988   2,591   24   6,450   1,579   875   9,175   85   1,141   19,304   0   5,286   0   141   1999   2,541   26   5,899   3,623   1,024   9,126   66   1,058   20,765   0   3,934   0   142   1991   2,863   26   5,827   1,794   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   3,274   1,	1982	2,746	25	5,076	2,231	1,138	9,060	51		18,477	0	5,426	0	33	NA
1988   2,591   24   6,450   1,579   875   9,175   85   1,141   19,304   0   5,286   0   141   1999   2,541   26   5,899   3,623   1,024   9,126   66   1,058   20,765   0   3,934   0   142   1991   2,863   26   5,827   1,794   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   3,274   1,	1983	2,409 2.719	23 25	4,473 5.106	2,245 1.019	1.024	8,952 8,885	91	1.079	17,574 17,204	0	5,526 5.722	0	74 93	NA NA
1988   2,591   24   6,450   1,579   875   9,175   85   1,141   19,304   0   5,286   0   141   1999   2,541   26   5,899   3,623   1,024   9,126   66   1,038   20,765   0   3,934   0   142   1991   2,863   26   5,827   1,794   367   9,119   67   1,001   18,175   0   3,828   0   3,934   0   142   1992   2,670   27   5,485   1,1830   1,272   9,345   143   1,125   19,310   0   3,612   0   424   1993   2,696   31   6,134   2,598   1,190   9,566   115   867   20,472   0   2,572   0   2	1985	2,703	25	5,154	1.241	1,019	9,279	36	1,114	17,843	•	5.333		98	NA
1988   2,591   24   6,450   1,579   875   9,175   85   1,141   19,304   0   5,286   0   141   1999   2,541   26   5,899   3,623   1,024   9,126   66   1,058   20,765   0   3,934   0   142   1991   2,863   26   5,827   1,794   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   367   9,119   67   1,001   18,175   0   3,828   0   3,254   1,272   1,274   3,274   1,			23 21		1,567 2,358			60 55	1,077 934	18,463 19,359	•	5,736 5,386			NA NA
1990   2.571   25   5.939   3.691   1.097   8.986   60   1.054   20.028   0   3.934   0   142     1991   2.863   26   5.827   1.794   367   9.119   67   1.001   18.175   0   3.628   0   3.25     1992   2.670   27   5.495   1.930   1.272   9.345   143   1.125   19.310   0   3.612   0   424     1994   3.036   31   6.134   2.591   1.190   9.565   115   876   20.472   0   2.591   0   471     1994   3.036   31   6.516   2.288   1.305   9.839   87   862   20.908   0   5.128   0   5.404     1995   2.573   34   6.283   2.294   1.144   1.004	1988	2,591	24	6 450	1 579	875	9,175	85	1,141	19,304	Ö	5,286	Ō	141	NA
1992   2,670   27   5,495   1,930   1,272   9,345   143   1,125   19,310   0   3,612   0   424     1994   3,036   31   6,134   2,591   1,190   9,565   115   876   20,472   0   2,591   0   471     1994   3,036   31   6,516   2,298   1,305   9,839   87   862   20,908   0   5,129   0   540     1995   2,537   34   6,255   2,294   1,463   10,007   14   1,050   21,082   0   6,010   0   506     1996   1,852   37   6,537   2,908   1,014   10,148   40   1,361   22,008   0   7,978   0   357     1997   2,442   36   6,129   2,627   697   10,165   64   1,582   21,264   0   9,012   0   399     1998   2,316   33   5,874   2,151   819   10,440   101   1,512   20,887   0   5,758   0   458     1999   2,649   36   6,080   1,988   770   10,337   88   2,123   21,385   0   6,677   0   509     2000   2,815   38   6,036   2,597   1,024   10,304   133   1,964   22,057   0   5,716   0   555     2002   2,358   42   6,792   3,022   919   10,599   104   1,242   2,677   0   4,354   6   591     2003   2,543   44   6,268   2,618   769   10,307   46   1,528   2,153   44   6,268   2,618   769   10,307   46   1,528   2,153   44   6,268   2,618   769   10,307   46   1,528   2,153   44   6,268   2,618   769   10,387   46   1,528   2,153   47   42   6,555   2,441   776   10,389   93   1,367   21,621   0   3,598   158   553     2006   2,340   41   6,844   2,171   945   10,217   29   1,863   2,069   0   3,397   149   631     2007   1,964   54   7,791   2,409   880   10,330   35   1,244   2,288   0   2,993   145   954     2008   2,538   36   37   7,514   2,098   380   37,575   22,099   0   2,993   145   954     2010   2,333   73   7,514   2,409   880   10,330   35   1,444   2,288   0   5,289   1,372   1,122     2010   2,333   73   7,514   2,409   880   10,330   35   1,444   2,288   0   5,289   1,372   1,122     2010   2,333   73   7,514   2,409   880   10,330   35   1,444   2,288   0   5,289   1,372   1,122     2010   2,333   73   7,514   2,409   880   10,330   35   1,444   2,288   0   6,688   2,488   1,488   1,488   1,488   1,488   1,488   1,488	1989 1990	2,541 2,571	26 25	5,889 5,939	3,623 3,691	1,024 1,097		66 60	1,038 1,054	20,765		4,583 3 934		163 142	NA NA
1994   3,036   31   6,516   2,298   1,305   9,839   87   862   20,908   0   5,129   0   540     1995   2,537   34   6,255   2,294   1,463   10,007   14   1,050   21,082   0   6,010   0   506     1996   1,852   37   6,537   2,908   1,014   10,148   40   1,361   22,008   0   7,978   0   357     1997   2,442   36   6,129   2,627   697   10,165   64   1,582   21,264   0   9,012   0   399     1998   2,316   33   5,874   2,151   819   10,440   101   1,512   20,897   0   5,758   0   458     1999   2,649   36   6,080   1,988   770   10,337   88   2,123   21,385   0   6,677   0   509     2000   2,815   38   6,036   2,597   1,024   10,304   133   1,964   22,057   0   5,716   0   555     2001   2,599   37   6,317   2,071   967   10,204   106   1,285   20,951   0   3,432   1   522     2002   2,358   42   6,792   3,022   919   10,599   104   1,242   22,677   0   4,354   6   591     2004   2,574   42   6,565   2,441   776   10,389   93   1,367   21,621   0   3,598   158   553     2005   2,430   41   6,844   2,171   945   10,273   62   2,010   22,393   0   3,075   158   673     2006   2,430   41   6,844   2,171   945   10,273   62   2,010   22,393   0   3,075   149   631     2007   1,964   54   7,791   2,409   880   10,330   35   1,244   2,688   0   2,917   150   827     2008   2,258   66   7,252   2,732   659   10,075   45   1,357   2,202   0   2,993   145   934     2009   2,238   66   7,252   2,739   699   10,075   45   1,357   2,029   0   2,993   145   934     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2012   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2013   2,238   73   7,514   2,409   7,514   3,404   3,404   3,404   3,4	1991	2,863	26	5,827	1,794	367	9,119	67	1,001	18,175		3,828	ő	325	NA
1994   3,036   31   6,516   2,298   1,305   9,839   87   862   20,908   0   5,129   0   540     1995   2,537   34   6,255   2,294   1,463   10,007   14   1,050   21,082   0   6,010   0   506     1996   1,852   37   6,537   2,908   1,014   10,148   40   1,361   22,008   0   7,978   0   357     1997   2,442   36   6,129   2,627   697   10,165   64   1,582   21,264   0   9,012   0   399     1998   2,316   33   5,874   2,151   819   10,440   101   1,512   20,897   0   5,758   0   458     1999   2,649   36   6,080   1,988   770   10,337   88   2,123   21,385   0   6,677   0   509     2000   2,815   38   6,036   2,597   1,024   10,304   133   1,964   22,057   0   5,716   0   555     2001   2,599   37   6,317   2,071   967   10,204   106   1,285   20,951   0   3,432   1   522     2002   2,358   42   6,792   3,022   919   10,599   104   1,242   22,677   0   4,354   6   591     2004   2,574   42   6,565   2,441   776   10,389   93   1,367   21,621   0   3,598   158   553     2005   2,430   41   6,844   2,171   945   10,273   62   2,010   22,393   0   3,075   158   673     2006   2,430   41   6,844   2,171   945   10,273   62   2,010   22,393   0   3,075   149   631     2007   1,964   54   7,791   2,409   880   10,330   35   1,244   2,688   0   2,917   150   827     2008   2,258   66   7,252   2,732   659   10,075   45   1,357   2,202   0   2,993   145   934     2009   2,238   66   7,252   2,739   699   10,075   45   1,357   2,029   0   2,993   145   934     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2011   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2012   2,336   73   7,514   2,409   880   10,330   35   1,244   2,2,688   0   2,917   150   827     2013   2,238   73   7,514   2,409   7,514   3,404   3,404   3,404   3,4	1992	2,670	27	5,495	1,930	1,272	9,345	143	1,125	19,310	0	3,612	0	424	NA NA
1997   2,442   36   6,129   2,627   697   10,165   64   1,582   21,264   0   9,012   0   399     1998   2,516   33   5,874   2,151   819   10,440   101   1,512   20,897   0   5,758   0   458     1999   2,649   36   6,080   1,988   770   10,337   88   2,123   21,385   0   6,677   0   509     2000   2,815   38   6,036   2,597   1,024   10,304   133   1,964   20,057   0   5,716   0   555     2001   2,599   37   6,317   2,071   967   10,204   106   1,285   20,951   0   3,432   1   522     2002   2,358   42   6,792   3,022   919   10,599   104   1,245   22,677   0   4,354   6   591     2003   2,543   44   6,268   2,618   769   10,307   46   1,528   21,535   0   4,276   44   585     2004   2,574   42   6,555   2,441   776   10,389   93   1,367   21,621   0   3,598   158   553     2005   2,158   43   6,850   2,201   996   10,273   62   2,010   22,993   0   3,075   158   673     2006   2,340   41   6,844   2,171   945   10,217   29   1,863   22,069   0   3,397   149   631     2007   1,964   54   7,791   2,409   880   10,330   35   1,244   22,688   0   2,917   150   827     2008   2,562   65   7,215   2,679   669   10,075   45   1,357   22,029   0   2,993   1,45   954     2010   2,333   73   7,514   2,036   771   10,577   2   1,423   22,323   0   5,239   1,372   1,122     2011   2,333   73   7,514   2,036   771   10,577   2   1,423   22,323   0   5,293   1,372   1,122     2011   2,155   70   8,006   1,625   791   10,931   (s)   1,369   22,722   0   5,981   2,354   1,088     2013   2,063   82   7,951   1,964   720   10,749   2   884   22,270   0   4,063   2,688   1,095     2014   1,995   81   7,507   1,748   825   11,415   9   898   82,422   0   5,256   2,958   1,187     2015   1,167   89   80,17   1,983   666   11,404   8   809   80,17   1,908   90   8,061   2,335   720   11,058   9   8,947   82,315   0   7,915   2,769   1,162   1,111	1994	3.036	31	6.516	2.298	1.305	9.839	87	862	20.908		5.129		540	NA
1997	1995	2,537	34	6,255	2,294	1,463	10,007	14	1,050	21,082	0	6,010		506	NA
2001 2,599 37 6,317 2,071 967 10,204 106 1,285 20,951 0 3,432 1 522 2002 2,358 42 6,792 3,022 919 10,599 104 1,242 22,677 0 4,354 6 591 2003 2,543 44 6,268 2,618 769 10,307 46 1,528 21,535 0 4,276 44 585 2004 2,574 42 6,555 2,441 776 10,389 93 1,367 21,621 0 3,598 158 553 2005 2,158 43 6,850 2,201 996 10,273 62 2,010 22,393 0 3,075 158 673 2006 2,340 41 6,844 2,171 945 10,217 29 1,863 22,069 0 3,397 149 631 2007 1,964 54 7,791 2,409 880 10,330 35 1,244 22,688 0 2,917 150 827 2008 2,562 65 7,215 2,679 659 10,075 45 1,357 22,029 0 2,993 145 954 2009 2,238 66 7,252 2,732 707 10,768 23 1,200 22,682 0 4,432 421 981 2010 2,333 73 7,514 2,036 771 10,577 2 1,423 22,333 0 5,239 1,372 1,122 2011 1,956 74 7,999 1,806 651 10,608 39 954 22,058 0 6,608 2,668 1,059 2012 2,155 70 8,006 1,625 791 10,931 (s) 1,369 22,722 0 5,981 2,354 1,088 2013 2,053 82 7,951 1,964 720 10,749 2 884 22,270 0 4,063 2,688 1,095 2014 1,995 81 7,901 1,883 984 10,973 4 870 22,615 0 5,498 2,336 1,114 2016 1,615 81 7,642 1,818 836 11,553 8 8745 12,242 0 5,256 2,958 1,188 2017 1,579 81 7,527 1,748 825 11,415 9 898 82,422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8 859 8,24,22 0 5,556 2,958 1,188 2019 1,908 90 8,061 2,335 720 11,058 9 894 7,931 10,073 10 8,108 8,242 0 5,256 2,958 1,188 2019 1,908 90 8,061 2,335 720 11,058 9 8,947 8,23,131 0 7,915 2,789 1,162 8,200 1,	1996 1997	1,852 2,442	37 36	6,537 6.129	2,908 2.627	1,014 697	10,148 10.165	40 64	1,361 1.582	22,008		7,978 9.012		357 399	NA NA
2001 2,599 37 6,317 2,071 967 10,204 106 1,285 20,951 0 3,432 1 522 2002 2,358 42 6,792 3,022 919 10,599 104 1,242 22,677 0 4,354 6 591 2003 2,543 44 6,268 2,618 769 10,307 46 1,528 21,535 0 4,276 44 585 2004 2,574 42 6,555 2,441 776 10,389 93 1,367 21,621 0 3,598 158 553 2005 2,158 43 6,850 2,201 996 10,273 62 2,010 22,393 0 3,075 158 673 2006 2,340 41 6,844 2,171 945 10,217 29 1,863 22,069 0 3,397 149 631 2007 1,964 54 7,791 2,409 880 10,330 35 1,244 22,688 0 2,917 150 827 2008 2,562 65 7,215 2,679 659 10,075 45 1,357 22,029 0 2,993 145 954 2009 2,238 66 7,252 2,732 707 10,768 23 1,200 22,682 0 4,432 421 981 2010 2,333 73 7,514 2,036 771 10,577 2 1,423 22,333 0 5,239 1,372 1,122 2011 1,956 74 7,999 1,806 651 10,608 39 954 22,058 0 6,608 2,668 1,059 2012 2,155 70 8,006 1,625 791 10,931 (s) 1,369 22,722 0 5,981 2,354 1,088 2013 2,053 82 7,951 1,964 720 10,749 2 884 22,270 0 4,063 2,688 1,095 2014 1,995 81 7,901 1,883 984 10,973 4 870 22,615 0 5,498 2,336 1,114 2016 1,615 81 7,642 1,818 836 11,553 8 8745 12,242 0 5,256 2,958 1,188 2017 1,579 81 7,527 1,748 825 11,415 9 898 82,422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8 859 8,24,22 0 5,556 2,958 1,188 2019 1,908 90 8,061 2,335 720 11,058 9 894 7,931 10,073 10 8,108 8,242 0 5,256 2,958 1,188 2019 1,908 90 8,061 2,335 720 11,058 9 8,947 8,23,131 0 7,915 2,789 1,162 8,200 1,	1998	2,316	33	5,874	2.151	819	10.440	101	1,512	20.897		5.758		458	NA
2001 2,599 37 6,317 2,071 967 10,204 106 1,285 20,951 0 3,432 1 522 2002 2,358 42 6,792 3,022 919 10,599 104 1,242 22,677 0 4,354 6 591 2003 2,543 44 6,268 2,618 769 10,307 46 1,528 21,535 0 4,276 44 585 2004 2,574 42 6,555 2,441 776 10,389 93 1,367 21,621 0 3,598 158 553 2005 2,158 43 6,850 2,201 996 10,273 62 2,010 22,393 0 3,075 158 673 2006 2,340 41 6,844 2,171 945 10,217 29 1,863 22,069 0 3,397 149 631 2007 1,964 54 7,791 2,409 880 10,330 35 1,244 22,688 0 2,917 150 827 2008 2,562 65 7,215 2,679 659 10,075 45 1,357 22,029 0 2,993 145 954 2009 2,238 66 7,252 2,732 707 10,768 23 1,200 22,682 0 4,432 421 981 2010 2,333 73 7,514 2,036 771 10,577 2 1,423 22,333 0 5,239 1,372 1,122 2011 1,956 74 7,999 1,806 651 10,608 39 954 22,058 0 6,608 2,668 1,059 2012 2,155 70 8,006 1,625 791 10,931 (s) 1,369 22,722 0 5,981 2,354 1,088 2013 2,053 82 7,951 1,964 720 10,749 2 884 22,270 0 4,063 2,688 1,095 2014 1,995 81 7,901 1,883 984 10,973 4 870 22,615 0 5,498 2,336 1,114 2016 1,615 81 7,642 1,818 836 11,553 8 8745 12,242 0 5,256 2,958 1,188 2017 1,579 81 7,527 1,748 825 11,415 9 898 82,422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8 859 8,24,22 0 5,556 2,958 1,188 2019 1,908 90 8,061 2,335 720 11,058 9 894 7,931 10,073 10 8,108 8,242 0 5,256 2,958 1,188 2019 1,908 90 8,061 2,335 720 11,058 9 8,947 8,23,131 0 7,915 2,789 1,162 8,200 1,	1999 2000		36 38	6,080 6,036	1,988 2 597		10,337 10,304	88 133		21,385 22,057		5 716			NA NA
2005	2001	2,599	37	6,317	2.071	967	10.204	106	1 285	20,951	Ö	3,432	ĭ	522	2 3
2005	2002	2,358	42	6,792	3,022	919	10,599		1,242	22,677		4,354		591	3
2005	2003	2,543	42	6,555	2,441	769 776	10,389	93	1,367	21,535	0	3,598	158	553	2 5
2009         2,238         66         7,252         2,732         707         10,768         23         1,200         22,682         0         4,432         421         981           2010         2,333         73         7,514         2,036         771         10,577         2         1,423         22,323         0         5,239         1,372         1,122           2011         1,956         74         7,999         1,806         651         10,608         39         954         22,058         0         6,608         2,668         1,059           2012         2,155         70         8,006         1,625         791         10,931         (s)         1,369         22,722         0         5,981         2,354         1,088           2013         2,053         82         7,951         1,964         720         10,749         2         884         22,270         0         5,981         2,354         1,088           2014         1,995         81         7,901         1,883         984         10,973         4         870         22,615         0         5,498         2,336         1,114           2015         1,187         79	2005	2.158	43	6.850	2.201	996	10.273	62	2.010	22.393		3,075	158	673	16
2009         2,238         66         7,252         2,732         707         10,768         23         1,200         22,682         0         4,432         421         981           2010         2,333         73         7,514         2,036         771         10,577         2         1,423         22,323         0         5,239         1,372         1,122           2011         1,956         74         7,999         1,806         651         10,608         39         954         22,058         0         6,608         2,668         1,059           2012         2,155         70         8,006         1,625         791         10,931         (s)         1,369         22,722         0         5,981         2,354         1,088           2013         2,053         82         7,951         1,964         720         10,749         2         884         22,270         0         5,981         2,354         1,088           2014         1,995         81         7,901         1,883         984         10,973         4         870         22,615         0         5,498         2,336         1,114           2015         1,187         79	2006	2,340 1 964	41 54	6,844 7 791	2,1/1 2.409	945 880	10,217 10,330	29 35	1,863 1 244	22,069 22,688	•	3,397 2 917		631 827	16 45 61 52 55 45 152
2010 2,333 73 7,514 2,036 771 10,577 2 1,423 22,323 0 5,239 1,372 1,122 2011 1,956 74 7,999 1,806 651 10,608 39 954 22,058 0 6,608 2,668 1,059 2012 2,155 70 8,006 1,625 791 10,931 (s) 1,369 22,722 0 5,981 2,354 1,088 2013 2,053 82 7,951 1,964 720 10,749 2 884 22,270 0 4,063 2,688 1,095 2014 1,995 81 7,901 1,883 984 10,973 4 870 22,615 0 5,498 2,336 1,114 2015 1,187 79 7,992 1,638 928 11,390 5 891 22,844 0 4,850 2,498 1,187 2016 1,615 81 7,642 1,818 836 11,553 8 745 82,603 0 4,806 3,714 1,197 2016 1,579 81 7,527 1,748 825 11,415 9 889 8 1,2242 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8,859 8,2937 0 6,266 2,835 1,177 2019 1,908 90 8,061 2,335 720 11,058 9 8,947 8,23,131 0 7,915 2,789 1,162 8 2020 1,322 85 9,157 1,915 668 10,703 10 8,009 8,245 0 5,831 5,544 1,131	2008	2,562	65	7,215	2,679	659	10,075	45	1,357	22,029		2.993	145	954	52
2012 2,155 70 8,006 1,625 791 10,931 (s) 1,369 22,722 0 5,981 2,354 1,088 2013 2,053 82 7,951 1,964 720 10,749 2 884 22,270 0 4,063 2,688 1,095 2014 1,995 81 7,901 1,883 984 10,973 4 870 22,615 0 5,498 2,336 1,114 2015 1,187 79 7,992 1,638 928 11,390 5 891 22,844 0 4,850 2,498 1,187 2016 1,615 81 7,642 1,818 836 11,553 8 745 82,603 0 4,806 3,714 1,197 2017 1,579 81 7,527 1,748 825 11,415 9 889 8,2422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8,859 8,2422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8,859 8,2422 0 6,266 2,835 1,177 2019 1,908 90 8,061 2,335 720 11,058 9 8,947 8,23,131 0 7,915 2,789 1,162 8 2020 1,322 85 9,157 1,915 668 10,703 10 8,1093 8,2455 0 5,831 5,544 1,131	2009	2,238	66	7.252	2,732	707	10,768	23	1,200	22.682	0	4,432	421	981	55 45
2012 2,155 70 8,006 1,625 791 10,931 (s) 1,369 22,722 0 5,981 2,354 1,088 2013 2,053 82 7,951 1,964 720 10,749 2 884 22,270 0 4,063 2,688 1,095 2014 1,995 81 7,901 1,883 984 10,973 4 870 22,615 0 5,498 2,336 1,114 2015 1,187 79 7,992 1,638 928 11,390 5 891 22,844 0 4,850 2,498 1,187 2016 1,615 81 7,642 1,818 836 11,553 8 745 82,603 0 4,806 3,714 1,197 2017 1,579 81 7,527 1,748 825 11,415 9 889 8,2422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8,859 8,2422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8,859 8,2422 0 6,266 2,835 1,177 2019 1,908 90 8,061 2,335 720 11,058 9 8,947 8,23,131 0 7,915 2,789 1,162 8 2020 1,322 85 9,157 1,915 668 10,703 10 8,1093 8,2455 0 5,831 5,544 1,131		2,333 1.956	73 74	7,514 7.999	2,036 1.806	651	10,577	39	954	22,323 22.058	0	5,239 6.608	2.668	1,122	152
2014 1,995 81 7,901 1,883 984 10,973 4 870 22,615 0 5,498 2,336 1,114 2015 1,187 79 7,992 1,638 928 11,390 5 891 22,844 0 4,850 2,498 1,187 2016 1,615 81 7,642 1,818 836 11,553 8 7,745 12,2603 0 4,806 3,714 1,197 2017 1,579 81 7,527 1,748 825 11,415 9 8,898 1,22,422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 8,859 1,2937 0 6,266 2,835 1,177 2019 1,908 90 8,061 2,335 720 11,058 9 1,907 1,908 90 8,061 2,335 720 11,058 9 1,907 1,007	2012	2,155	70	8,006	1,625	791	10,931		1,369	22,722	0	5,981	2,354	1 088	149 236
2016 1,615 81 7,642 1,818 836 11,553 8	2013 2014	2,053 1 995	82 81	7,951 7 901	1,964 1,883	984	10 973	2	884 870	22 615	0	4,063 5 498	2,688 2,336	1,095 1 114	236 213
2017 1,579 81 7,527 1,748 825 11,415 9 898 122,422 0 5,256 2,958 1,188 2018 1,674 89 8,017 1,983 666 11,404 8 859 12,937 0 6,266 2,835 1,177 2019 1,908 90 8,061 2,335 720 11,058 9 1947 123,131 0 7,915 2,789 1,162 12 2020 1,322 85 9,157 1,915 668 10,703 10 10 1,093 123,545 0 5,831 5,544 1,131	2015	1,187	79	7,992	1,638	928	11,390		891	22,844	Ö	4,850	2,498	1,187	213 191 270
2018 1,674 89 8,017 1,983 666 11,404 8 4859 42,937 0 6,266 2,835 1,177 2019 1,908 90 8,061 2,335 720 11,058 9 8947 823,131 0 7,915 2,789 1,162 8 2020 1,322 85 9,157 1,915 668 10,703 10 10,003 123,545 0 5,831 5,544 1,131		1,615 1,570	81 91	7,642 7,527	1,818	836	11,553		H 7/15	H 22,603 R 22,422		4.806	3,714	1,197	270
2019 1,908 90 8,061 2,335 720 11,058 9 <sup>H</sup> 947 H 23,131 0 7,915 2,789 1,162 H 2020 1,322 85 9,157 1,915 668 10,703 10 H 1,093 H 23,545 0 5,831 5,544 1,131	2018	1,674	89	8,017	1,983	666	11,404	•	H 859	R 22,937		6,266	2,835	1,177	225 213 R 170
2020 1,322 85 9,157 1,915 668 10,703 10 11,093 123,545 0 5,831 5,544 1,131 2021 1,312 90 8,000 1,939 712 11,748 9 81,206 823,615 0 4,983 9,327 1,231	2019	1 908	90	8.061	2 335	720	11 058	9	H 947	R 23,131	0	7,915	2,789	1.162	R 170
	2020	1,322 1.312	85 90	9,157 R 8.000	1,915 1,939		10,703 11,748		H 1,093	R 23,545		4.983		1,131 1,231	259 192
2022 1,511 96 7,997 1,902 748 11,531 9 1,193 23,380 0 4,259 10,295 1,222	2022	1,511	96	7,997	1,902	748	11,531	9	1,193	23,380	0	4,259	10,295	1,222	192

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of</sup> data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, South Dakota (trillion Btu)

					Fossil	fuels						Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	6.7	25.4	17.1	5.3	6.1	45.0	0.6	12.0	86.2	118.3	25.4	17.1	45.0
1965	5.7 5.7	26.9	21.9	5.9	6.0	47.0	0.4	8.7	90.0	122.5	26.9	21.9	47.0
1970	5.7	36.5	25.5	10.4	6.3	52.0	2.1	7.5	103.8	145.9	36.5	25.5	52.0
1971 1972	5.8 5.3	32.0 34.2	26.9 26.4	10.2 12.0	6.5 6.1	53.8 56.6	1.3 2.2	7.9 8.3	106.6 111.6	144.4 151.1	32.0 34.2	26.9 26.4	53.8 56.6
1973	5.3 6.3	31.3	24.7	11.1	5.8	57.7	1.5	9.8	110.6	148.3	31.3	24.7	57.7
974	7.4	32.0	21.5	10.5	6.0	56.2	0.8	7.3	102.4	141.8	32.0	21.5	56.2
975	24.3	32.5	22.4	11.1	5.7	55.9	1.4	7.1	103.5	160.3	32.5	22.4	55.9
976	37.1	39.2 36.1	19.4	11.4	5.5	57.5	1.9	7.6	103.4 104.6	179.6 176.3	39.2 36.1	19.4	57.5
977 1978	35.6 38.6	36.1 35.4	17.6 21.7	14.0 12.0	5.9	59.3 60.0	1.8 1.8	6.1 7.8	104.6 110.4	176.3 184.3	36.1 35.4	17.6 21.7	59.3 60.0
979	35.5	25.6	37.0	9.1	7.2 7.2	56.6	1.4	7.0	118.2	179.3	25.6	37.0	56.6
980	36.6	24.0	28.0	9.4	7.1	50.9	0.8	5.8	101.9	162.5	24.0	28.0	50.9
981 982	36.2	22.1 25.0	25.7	6.6	6.1	48.3	1.0	5.1	92.8	151.1	22.1 25.1	25.7	48.3
982	37.0	25.0	29.6	8.1	6.1	47.6	0.3	5.8	97.6	159.6	25.1	29.6	47.6
983 984	30.7	23.6 24.9	26.1 29.7	8.3 3.8	5.2 5.5	47.0 46.7	0.9 0.6	5.1 6.9	92.5 93.2	146.8 152.5	23.6	26.1 29.7	47.0 46.7
985	34.4 34.5	24.9 25.5	30.0	4.6	5.5 5.5	48.7	0.6	7.1	96.2	156.2	24.9 25.5	30.0	46.7 48.7
986	29.2	23.4	36.3	5.8	5.5 2.8	47.3	0.4	6.9	99.6	152.2	25.5 23.4	36.3	47.3
987	14.6	21.4	36.9	8.8	3.6	47.4	0.3	6.0	103.0	138.9	21.4	36.9	47.4
988	33.8	24.7	37.6	5.9	4.7	48.2	0.5	7.3	104.3	162.8	24.7	37.6	48.2
989 990	34.3 34.9	25.9 25.4	34.3 34.6	13.3 13.5	5.5 5.9	47.9 47.2	0.4 0.4	6.6 6.7	108.2 108.4	168.4 168.7	25.9 25.5	34.3 34.6	47.9 47.2
990	38.7	26.7	33.9	6.7	2.0	47.2 47.9	0.4	6.4	97.4	162.8	26.7	33.9	47.2
992	36.0	27.0	32.0	7.1	6.9	49.1	0.9	7.3	103.3	166.3	27.0	32.0	49.1
993	36.4	31.7	35.7	9.5	6.4	48.3	0.7	5.6	106.3	174.4	31.7	35.7	49.9
994	41.4	31.2	37.9	8.6	7.1	49.4	0.5	5.5	109.0	181.6	31.3 34.8	37.9	51.3
995 996	37.4 33.5	34.7 37.3	36.4 38.0	8.6 10.9	7.9 5.7	50.3 51.6	0.1 0.3	6.8 8.8	110.1 115.4	182.3 186.2	34.8 37.4	36.4 38.0	52.1 52.9
997	42.9	36.8	35.7	9.9	4.0	51.5	0.4	10.3	111.7	191.5	36.8	35.7	52.9
998	41.0	33.4	34.2	8.1	4.6	52.7	0.6	9.9	110.1	184.5	33.4	34.2	54.3
999	46.3	36.0	35.4	7.5	4.4	52.0	0.6	13.9	113.7	196.0	36.0	35.4	53.8
000	50.6	38.1	35.1	9.7	5.8	51.7	0.8	12.8	116.0	204.7	38.1	35.1	53.6
001 002	44.4 40.0	37.0 41.5	36.8 39.5	7.8	5.5 5.2	51.3	0.7	8.3 8.1	110.3 117.7	191.7 199.2	37.0	36.8 39.5	53.1 55.1
002	43.0	43.9	36.5	11.1 9.8	4.4	53.1 51.5	0.7 0.3	10.0	117.7	199.2	41.5 43.9	36.5 36.5	53.6
004	43.6	41.8	38.1	9.0	4.4	52.1	0.6	8.9	113.1	198.4	41.8	38.1	54.0
005	37.0	42.8	39.9	8.1	5.6	51.0	0.4	13.2	118.2	198.0	41.8 42.9	39.9	53.3
006	39.6	40.9	39.7	8.0	5.4	50.8	0.2	12.2	116.2	196.7	40.9	39.7	53.0
007 008	33.3 43.1	54.1 65.5	45.1 41.7	8.9 10.0	5.0 3.7	50.2 48.1	0.2 0.3	8.1 8.9	117.5 112.7	204.8 221.3	54.1 65.5	45.1 41.7	53.1 51.4
009	37.5	66.3	41.6	10.1	4.0	51.4	0.3	7.9	115.1	218.9	66.3	41.7	51.4 54.8
010	39.1	72.9	43.2	7.8	4.4	49.7	(s)	9.3	114.4	226.4	72.9	43.4	53.6
)11	32.1	74.0	45.6	6.9	3.7	50.0	(s) 0.2	6.2	112.7	218.8	74.0	46.2	53.7
012	35.6	71.5	45.5	6.2	4.5	51.6	(s)	8.9 5.7	116.7	223.8	71.5 84.5 83.9	46.2	55.3
013	34.2	84.5	44.7	7.5	4.1	50.6	(s)	5.7	112.7	231.4	84.5	45.8 45.5	54.4
014 015	33.1 19.6	83.9 83.4	44.4 44.9	7.2 6.3	5.6 5.3	51.6 53.5	(s) (s)	5.6 5.8	114.5 115.7	231.5 218.7	83.9 83.4	45.5 46.1	55.5 57.6
016	26.7	85.0	42.5	7.0	4.7	54.2	(s)	4.8	113.3	225.0	85.0	44.0	58.4
017	26.1	85.3	41.9	6.7	4.7	53.5	0.1	5.8	112.7 R 115.4	R 224.2	85.3	43.3	57.7
018	27.6	95.5	44.8	7.6	3.8	53.5	0.1	R 5.6	R 115.4	238.5	95.5	46.2	57.6
019	31.4	97.4	45.1	9.0	4.1	51.8	0.1	R 6.2	116.2	R 245.1	97.4	46.4	55.9
020 021	21.7 21.6	91.2 96.8	51.3 R 45.5	7.4 7.4	3.8 4.0	50.1 55.0	0.1 0.1	7.1 7.7	R 119.8 R 119.3	R 232.7 R 237.6	91.2 96.8	52.7 R 46.1	54.1 59.3
021	21.6	103.2	45.5	7.4 7.3	4.0 4.2	55.0 54.0	0.1	7.7	118.1	246.1	103.2	46.1	59.3 58.2

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, South Dakota (continued) (trillion Btu)

1960 0.0   F3.9   1.5   NA   NA   NA   NA   NA   1.5   0.0   NA   NA   F3.5   F2.6   0.0   1960   0.0   F3.2   1.1   NA   NA   NA   NA   NA   NA   NA   N								Renewable en	ergy							
Nuclear   Power   Words   Power   Words   Power   Words   Power   Words   Wo						Bior	nass							Net		
1950 0.0	Year	electric	eléctric			Biodiesel		and co-	Total <sup>f</sup>		Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of	net	Total <sup>f</sup>
1979			R 3.9		NA NA			NA NA					R 5.5 R 14.3	R 2.6		R 126.3
1979 0.0 R 21.7 2.0 NA	1970		R 22.4		NA NA	NA NA	NA NA	NA NA	1.1	0.0	NA NA	NA NA	R 23.6	R -4.5	0.0	R 136.3 R 136.5 R 165.0 R 166.1 R 175.1 R 172.8 R 168.0 R 176.8 R 190.5 R 193.0
1979 0.0 R 21.7 2.0 NA	1971		R 26.5	1.1	NA	NA	NA	NA	1.1	0.0	NA	NA	R 27.6	R -5.8	0.0	R 166.1
1979 0.0 R 21.7 2.0 NA	1972 1973		R 16.5	1.2	NA NA				1.2			NA NA	H 17 8	11-2.6 R 6.8		11/5.1 R 172 8
1979 0.0 R 21.7 2.0 NA	1974	0.0	B 19.3	1.3	NA	NA	NA	NA	1.3	0.0	NA	NA	Rane	_ R 5.7	0.0	B 168.0
1979 0.0 R 21.7 2.0 NA	1975		H 27 0	1.5	NA	NA	NA	NA	1.5		NA	NA	R 28.5	R -12.1		R 176.8
1979 0.0 R 21.7 2.0 NA	19/6 1977	0.0	<sup>n</sup> 24.1 R 18 1	1./	NA NA	NA NA	NA NA	NA NA	1./	0.0	NA NA	NA NA	R 25.7	n -14.8 R -3 3	0.0	<sup>n</sup> 190.5 R 193.0
1979 0.0 H21.7 2.0 NA NA NA NA NA NA 2.0 0.0 NA NA H23.7 H31.1 0.0 1990 0.0 H39.9 3.3 NA NA NA NA NA NA 3.2 0.0 NA NA NA H23.7 H31.1 0.0 1991 0.0 H39.9 3.3 NA	1978		R 23.3	2.0	NA			NA	2.0			NA	R 25.3			R 200.8
1983	1979		R 21.7	2.0	NA	NA	NA	NA	2.0		NA	NA	R 23.7	R <sub>-3.1</sub>	0.0	R 200.8 R 199.9 R 185.7 R 174.2
1983	1980	0.0	H 19.9	3.3	NA 0.1		NA NA	NA 0.0	3.3	0.0	NA	NA NA	H 23.2	H (s)	0.0	H 185.7
1983	1982		H 18 5	3.5	0.1	NA NA		0.0	3.7	0.0	NA NA	NA NA	R 22.2	R 3.8	0.0	R 185.6 R 179.2 R 182.9 R 189.6 R 189.7 R 190.7
1988	1983	0.0	R 18.9	3.4	0.3	NA	NA	0.0	3.7	0.0	NA	0.0	ロックド	R 9.9	0.0	R 179.2
1988	1984		H 19.5	4.0	0.3				4.4		0.0	0.0	H 23.9	H 6.5		H 182.9
1988	1985		R 19.2	4.1 4.1	0.3	NA NA					0.0	0.0	R 24.1	R 13.4		R 189.6
1988	1987	0.0	R 18.4	3.6	0.5	NA	NA	0.0	4.1	0.0	0.0	0.0	R 22.5	R 29.4	0.0	B 190.7
1992 0.0			H 18 N	3.8								0.0	R 22.8	R 15.7		
1992 0.0	1989		<sup>n</sup> 15.6 R 13.4	3.3	0.6			0.5	4.4	0.1		0.0	R 16 g	<sup>∩</sup> 21.0 R 6 a	0.0	R 209.5 R 192.4 R 189.4 R 194.3
1992 0.0	1991		R 13.1	2.3	1.1	NA	NA	0.5	3.9	0.2	(s)	0.0	R 17.2	R 9.5	0.0	R 189.4
1998	1992		H 12 3	2.4	1.5			0.5	4.4	0.2		0.0	R 16.9	H 11 1		R 194.3
1998	1993	0.0	H 8.8	2.1	1.6	NA NA	NA NA	0.5	4.3	0.2		0.0	H 13.3	H 26.6	0.0	R 214.3 R 204.7 R 204.6 R 209.7 R 204.3
1998	1995		R 20.5	2.1		NA			47	0.2	(s)	0.0	R 25.4	H 2 1		R 204.6
1998	1996	0.0	R 27.2	2.2	1.2	NA	NA	0.8	4.2	0.3		0.0	H 31 7	R -8.3	0.0	R 209.7
2001 0.0 R11.7 1.8 1.8 1.8 (s) NA 1.5 5.1 0.5 (s) R(s) R17.3 R22.5 (s) 2002 0.0 R14.9 1.7 2.1 (s) NA 3.7 7.4 0.5 (s) R(s) R0.2 R28.2 R22.7 (s) 2003 0.0 R14.6 1.8 2.0 (s) NA 9.0 12.8 0.6 (s) R0.2 R28.2 R22.2 0.0 2004 0.0 R12.3 1.8 1.9 (s) NA 18.2 21.9 0.7 (s) R0.5 R35.5 R29.0 (s) 2005 0.0 R10.5 1.5 2.3 0.1 NA 24.4 28.4 0.8 (s) R0.5 R40.2 R45.2 (s) 2006 0.0 R10.6 1.4 2.2 0.2 NA 31.6 35.5 0.9 (s) R0.5 R40.2 R45.2 (s) 2007 0.0 R10.0 1.5 2.9 0.3 NA 31.6 35.5 0.9 (s) R0.5 R49.7 R54.2 (s) 2008 0.0 R10.2 1.7 3.3 0.3 NA 33.6 38.3 0.9 (s) R0.5 R49.7 R54.2 (s) 2008 0.0 R10.1 1.7 3.3 0.3 NA 44.4 49.6 1.5 (s) R0.5 R61.8 R47.9 0.0 2009 0.0 R15.1 2.1 3.4 0.3 NA 51.3 57.2 1.6 (s) R1.4 R75.3 R36.3 (s) 2010 0.0 R17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (s) R4.7 R87.0 R21.1 0.0 2014 0.0 R22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (s) R9.1 R95.9 R4.6 (s) 2012 0.0 R20.4 2.3 3.8 0.8 0.8 0.0 55.1 62.3 2.0 (s) R9.1 R95.9 R4.6 (s) 2014 0.0 R13.9 2.8 3.8 0.8 0.8 0.0 55.9 63.8 1.9 (s) R9.0 R89.9 R10.4 0.0 2014 0.0 R18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (s) R8.5 R94.7 R95.0 R92.4 R20.6 0.0 2015 0.0 R16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (s) R9.5 R10.8 R9.9 R10.6 R9.9 R10.8 0.0 2016 0.0 R16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (s) R9.5 R10.1 R10.0 R19.9 R9.5 R10.6 R9.9 R10.6 R9	1997		H 30.7	1.9		NA	NA		4.0	0.3		0.0	H 35.0	H -22.5		H 204.3
2001 0.0 R11.7 1.8 1.8 1.8 (s) NA 1.5 5.1 0.5 (s) R(s) R17.3 R22.5 (s) 2002 0.0 R14.9 1.7 2.1 (s) NA 3.7 7.4 0.5 (s) R(s) R0.2 R28.2 R22.7 (s) 2003 0.0 R14.6 1.8 2.0 (s) NA 9.0 12.8 0.6 (s) R0.2 R28.2 R22.2 0.0 2004 0.0 R12.3 1.8 1.9 (s) NA 18.2 21.9 0.7 (s) R0.5 R35.5 R29.0 (s) 2005 0.0 R10.5 1.5 2.3 0.1 NA 24.4 28.4 0.8 (s) R0.5 R40.2 R45.2 (s) 2006 0.0 R10.6 1.4 2.2 0.2 NA 31.6 35.5 0.9 (s) R0.5 R40.2 R45.2 (s) 2007 0.0 R10.0 1.5 2.9 0.3 NA 31.6 35.5 0.9 (s) R0.5 R49.7 R54.2 (s) 2008 0.0 R10.2 1.7 3.3 0.3 NA 33.6 38.3 0.9 (s) R0.5 R49.7 R54.2 (s) 2008 0.0 R10.1 1.7 3.3 0.3 NA 44.4 49.6 1.5 (s) R0.5 R61.8 R47.9 0.0 2009 0.0 R15.1 2.1 3.4 0.3 NA 51.3 57.2 1.6 (s) R1.4 R75.3 R36.3 (s) 2010 0.0 R17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (s) R4.7 R87.0 R21.1 0.0 2014 0.0 R22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (s) R9.1 R95.9 R4.6 (s) 2012 0.0 R20.4 2.3 3.8 0.8 0.8 0.0 55.1 62.3 2.0 (s) R9.1 R95.9 R4.6 (s) 2014 0.0 R13.9 2.8 3.8 0.8 0.8 0.0 55.9 63.8 1.9 (s) R9.0 R89.9 R10.4 0.0 2014 0.0 R18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (s) R8.5 R94.7 R95.0 R92.4 R20.6 0.0 2015 0.0 R16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (s) R9.5 R10.8 R9.9 R10.6 R9.9 R10.8 0.0 2016 0.0 R16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (s) R9.5 R10.1 R10.0 R19.9 R9.5 R10.6 R9.9 R10.6 R9	1998		H 22 8	1.6	1.6	NA NA			4.1 4.4	0.4		0.0	R 27.6	R -12.3		R 206.4 R 212.1 R 226.4
2001 0.0 R11.7 1.8 1.8 1.8 (s) NA 1.5 5.1 0.5 (s) R(s) R17.3 R22.5 (s) 2002 0.0 R14.9 1.7 2.1 (s) NA 3.7 7.4 0.5 (s) R(s) R0.2 R28.2 R22.7 (s) 2003 0.0 R14.6 1.8 2.0 (s) NA 9.0 12.8 0.6 (s) R0.2 R28.2 R22.2 0.0 2004 0.0 R12.3 1.8 1.9 (s) NA 18.2 21.9 0.7 (s) R0.5 R35.5 R29.0 (s) 2005 0.0 R10.5 1.5 2.3 0.1 NA 24.4 28.4 0.8 (s) R0.5 R40.2 R45.2 (s) 2006 0.0 R10.6 1.5 2.9 0.3 NA 31.6 35.5 0.9 (s) R0.5 R40.2 R45.2 (s) 2007 0.0 R10.0 1.5 2.9 0.3 NA 31.6 35.5 0.9 (s) R0.5 R49.7 R54.2 (s) 2008 0.0 R10.0 1.5 2.9 0.3 NA 33.6 38.3 0.9 (s) R0.5 R49.7 R54.2 (s) 2008 0.0 R10.1 1.7 3.3 0.3 NA 44.4 49.6 1.5 (s) R0.5 R49.7 R54.2 (s) 2009 0.0 R15.1 2.1 3.4 0.3 NA 44.4 49.6 1.5 (s) R0.5 R61.8 R47.9 0.0 2007 0.0 R10.0 R12.2 S 2.6 S 3.7 0.8 0.0 55.1 62.3 2.0 (s) R1.4 R75.3 R36.3 (s) 2011 0.0 R22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (s) R9.1 R95.9 R4.6 (s) 2012 0.0 R20.4 2.3 3.8 0.8 0.8 0.0 55.1 62.3 2.0 (s) R9.1 R95.9 R4.6 (s) 2013 0.0 R12.9 2.3 3.9 1.1 0.0 55.9 63.8 1.9 (s) R9.0 R89.9 R10.4 0.0 2014 0.0 R13.9 2.8 3.8 0.8 0.8 0.0 55.9 63.8 1.9 (s) R9.0 R9.0 R9.1 R95.9 R4.6 (s) 2014 0.0 R18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (s) R9.0 R9.0 R9.0 R9.0 R9.0 R9.0 R9.0 R9.0	2000	0.0	R 19.5	1.8	1.9	NA	NA	1.0	4.7	0.4		0.0	R 24.6	R -3.0	(s)	R 226.4
2008 0.0 R 15.1 2.1 3.4 0.3 NA 44.4 49.6 1.5 (S) R1.4 R 75.3 R 36.3 (S) 2010 0.0 R 17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (S) R 4.7 R 87.0 R 21.1 0.0 2011 0.0 R 22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (S) R 9.1 R 95.9 R 4.6 (S) 2012 0.0 R 20.4 2.3 3.8 0.8 0.0 55.7 59.6 1.9 (S) R 8.0 R 89.9 R 10.4 0.0 2013 0.0 R 13.9 2.8 3.8 1.3 0.0 54.8 62.7 1.9 (S) R 9.2 R 87.6 R 28.1 0.0 2014 0.0 R 18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (S) R 9.0 R 9.2 R 87.6 R 28.1 0.0 2015 0.0 R 16.5 3.0 4.1 1.0 0.0 55.9 63.8 1.9 (S) R 8.0 R 92.4 R 20.6 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 8.5 R 94.7 R 30.8 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 12.7 R 99.5 R 12.8 0.0 2018 0.0 R 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (S) R 10.1 R 100.7 R 19.4 0.0 2018 0.0 R 27.0 3.3 4.0 0.9 0.0 62.8 70.7 1.9 (S) R 9.5 R 10.1 R 100.7 R 19.4 0.0 2019 0.0 R 27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 0.0 0.0 R 17.9 R 27.0 R 27.	2001		H 11 7	1.8	1.8		NA	1.5	5.1	0.5	(s)	_ (s)	H 17.3	H 22.5	(s)	R 231.5 R 244.6
2008 0.0 R 15.1 2.1 3.4 0.3 NA 44.4 49.6 1.5 (S) R1.4 R 75.3 R 36.3 (S) 2010 0.0 R 17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (S) R 4.7 R 87.0 R 21.1 0.0 2011 0.0 R 22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (S) R 9.1 R 95.9 R 4.6 (S) 2012 0.0 R 20.4 2.3 3.8 0.8 0.0 55.7 59.6 1.9 (S) R 8.0 R 89.9 R 10.4 0.0 2013 0.0 R 13.9 2.8 3.8 1.3 0.0 54.8 62.7 1.9 (S) R 9.2 R 87.6 R 28.1 0.0 2014 0.0 R 18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (S) R 9.0 R 9.2 R 87.6 R 28.1 0.0 2015 0.0 R 16.5 3.0 4.1 1.0 0.0 55.9 63.8 1.9 (S) R 8.0 R 92.4 R 20.6 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 8.5 R 94.7 R 30.8 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 12.7 R 99.5 R 12.8 0.0 2018 0.0 R 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (S) R 10.1 R 100.7 R 19.4 0.0 2018 0.0 R 27.0 3.3 4.0 0.9 0.0 62.8 70.7 1.9 (S) R 9.5 R 10.1 R 100.7 R 19.4 0.0 2019 0.0 R 27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 0.0 0.0 R 17.9 R 27.0 R 27.	2002		□ 14.9 R 14.6	1./	2.1		NA NA	3.7	/.4 12.8	0.5	(S)	R (s)	R 22.8	R 22.7	(s)	R 244.6
2008 0.0 R 15.1 2.1 3.4 0.3 NA 44.4 49.6 1.5 (S) R1.4 R 75.3 R 36.3 (S) 2010 0.0 R 17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (S) R 4.7 R 87.0 R 21.1 0.0 2011 0.0 R 22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (S) R 9.1 R 95.9 R 4.6 (S) 2012 0.0 R 20.4 2.3 3.8 0.8 0.0 55.7 59.6 1.9 (S) R 8.0 R 89.9 R 10.4 0.0 2013 0.0 R 13.9 2.8 3.8 1.3 0.0 54.8 62.7 1.9 (S) R 9.2 R 87.6 R 28.1 0.0 2014 0.0 R 18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (S) R 9.0 R 9.2 R 87.6 R 28.1 0.0 2015 0.0 R 16.5 3.0 4.1 1.0 0.0 55.9 63.8 1.9 (S) R 8.0 R 92.4 R 20.6 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 8.5 R 94.7 R 30.8 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 12.7 R 99.5 R 12.8 0.0 2018 0.0 R 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (S) R 10.1 R 100.7 R 19.4 0.0 2018 0.0 R 27.0 3.3 4.0 0.9 0.0 62.8 70.7 1.9 (S) R 9.5 R 10.1 R 100.7 R 19.4 0.0 2019 0.0 R 27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 0.0 0.0 R 17.9 R 27.0 R 27.	2003		R 12.3	1.8	1.9	(s)	NA	18.2	21.9	0.7	(s)	R 0.5	R 35.5	R 29.0		R 249.7 R 262.9
2008 0.0 R 15.1 2.1 3.4 0.3 NA 44.4 49.6 1.5 (S) R1.4 R 75.3 R 36.3 (S) 2010 0.0 R 17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (S) R 4.7 R 87.0 R 21.1 0.0 2011 0.0 R 22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (S) R 9.1 R 95.9 R 4.6 (S) 2012 0.0 R 20.4 2.3 3.8 0.8 0.0 55.7 59.6 1.9 (S) R 8.0 R 89.9 R 10.4 0.0 2013 0.0 R 13.9 2.8 3.8 1.3 0.0 54.8 62.7 1.9 (S) R 9.2 R 87.6 R 28.1 0.0 2014 0.0 R 18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (S) R 9.0 R 9.2 R 87.6 R 28.1 0.0 2015 0.0 R 16.5 3.0 4.1 1.0 0.0 55.9 63.8 1.9 (S) R 8.0 R 92.4 R 20.6 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 8.5 R 94.7 R 30.8 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 12.7 R 99.5 R 12.8 0.0 2018 0.0 R 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (S) R 10.1 R 100.7 R 19.4 0.0 2018 0.0 R 27.0 3.3 4.0 0.9 0.0 62.8 70.7 1.9 (S) R 9.5 R 10.1 R 100.7 R 19.4 0.0 2019 0.0 R 27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 0.0 0.0 R 17.9 R 27.0 R 27.	2005		R 10.5	1.5	2.3	0.1		24.4	28.4	0.8	(-/	R 0.5	n 40 2	R 45.2	(s)	R 283.4 R 286.6 R 308.8 R 331.0
2008 0.0 R 15.1 2.1 3.4 0.3 NA 44.4 49.6 1.5 (S) R1.4 R 75.3 R 36.3 (S) 2010 0.0 R 17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (S) R 4.7 R 87.0 R 21.1 0.0 2011 0.0 R 22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (S) R 9.1 R 95.9 R 4.6 (S) 2012 0.0 R 20.4 2.3 3.8 0.8 0.0 55.7 59.6 1.9 (S) R 8.0 R 89.9 R 10.4 0.0 2013 0.0 R 13.9 2.8 3.8 1.3 0.0 54.8 62.7 1.9 (S) R 9.2 R 87.6 R 28.1 0.0 2014 0.0 R 18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (S) R 9.0 R 9.2 R 87.6 R 28.1 0.0 2015 0.0 R 16.5 3.0 4.1 1.0 0.0 55.9 63.8 1.9 (S) R 8.0 R 92.4 R 20.6 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 8.5 R 94.7 R 30.8 0.0 2016 0.0 R 16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (S) R 12.7 R 99.5 R 12.8 0.0 2018 0.0 R 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (S) R 10.1 R 100.7 R 19.4 0.0 2018 0.0 R 27.0 3.3 4.0 0.9 0.0 62.8 70.7 1.9 (S) R 9.5 R 10.1 R 100.7 R 19.4 0.0 2019 0.0 R 27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 4.0 0.9 0.0 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 2019 0.0 R 17.9 R 27.0 3.3 3.9 1.4 0.0 0.9 61.0 R 90.1 1.9 (S) R 9.5 R 110.5 R 4.8 0.0 0.0 0.0 R 17.9 R 27.0 R 27.	2006		n 11.6	1.4	2.2	0.2	NA NA	31.6	35.5	0.9	(s)	n 0.5	n 48.4 B 40.7	7 41.5 B 54.2	0.0	n 286.6
2009 0.0	2008		H 10 2	1.7	3.3	0.3			49.6	1.5	(s)		H 61 8		0.0	R 331.0
2010 0.0 H17.9 2.3 3.9 0.2 NA 56.3 62.7 1.7 (s) H4.7 H87.0 H21.1 0.0 2011 0.0 H22.5 2.6 3.7 0.8 0.0 55.1 62.3 2.0 (s) H9.1 H95.9 H4.6 (s) 2012 0.0 H20.4 2.3 3.8 0.8 0.0 52.7 59.6 1.9 (s) H8.0 H89.9 H10.4 0.0 2013 0.0 H13.9 2.8 3.8 1.3 0.0 54.8 62.7 1.9 (s) H9.2 H87.6 H28.1 0.0 2014 0.0 H18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (s) H9.2 H87.6 H28.1 0.0 2015 0.0 H16.5 3.0 4.1 1.0 0.0 55.9 63.8 1.9 (s) H8.0 H92.4 H20.6 0.0 2016 0.0 H16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (s) H12.7 H99.5 H12.8 0.0 2016 0.0 H17.9 2.7 4.1 1.2 0.0 60.2 68.5 1.9 (s) H12.7 H99.5 H12.8 0.0 2018 0.0 H21.4 3.8 4.1 1.1 0.0 64.5 73.5 1.9 (s) H9.7 H100.4 H8.8 0.0 2019 0.0 H21.4 3.8 4.1 1.1 0.0 64.5 73.5 1.9 (s) H9.5 H10.1 H100.7 H9.4 0.0 2019 0.0 H27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) H9.5 H10.5 H4.8 0.0 2019 0.0 H27.0 3.3 4.0 0.9 0.0 61.0 H8.1 1.9 (s) H9.5 H10.5 H4.8 0.0 2019 0.0 H27.0 3.3 3.9 1.4 0.0 61.0 H8.1 1.9 (s) H9.8 H10.8 H10.8 H10.8 H20.9 H20.8 H20.9 H2	2009	0.0	H 15 1	2.1	3.4	0.3	NA	51.3	57.2	1.6	(s)	B 4 4	R 75.3	R 36.3	(s)	R 330.5 R 334.5
2012 0.0 H20.4 2.3 3.8 0.8 0.0 52.7 59.6 1.9 (s) H8.0 H89.9 H10.4 0.0 2013 0.0 R13.9 2.8 3.8 1.3 0.0 54.8 62.7 1.9 (s) R9.2 R87.6 R28.1 0.0 2014 0.0 R18.8 2.8 3.9 1.1 0.0 55.9 63.8 1.9 (s) R8.0 R92.4 R20.6 0.0 2015 0.0 R16.5 3.0 4.1 1.0 0.0 55.9 63.8 1.9 (s) R8.5 R94.7 R30.8 0.0 2016 0.0 R16.4 2.7 4.2 1.4 0.0 60.2 68.5 1.9 (s) R8.5 R94.7 R30.8 0.0 2017 0.0 R17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (s) R10.1 R100.7 R99.5 R12.8 0.0 2018 0.0 R21.4 3.8 4.1 1.1 0.0 64.5 73.5 1.9 (s) R9.7 R106.4 R8.8 0.0 2019 0.0 R27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) R9.5 R10.5 R4.8 0.0 2019 0.0 R19.9 R2.8 3.9 14 0.0 61.0 R61 1.9 (s) R9.5 R10.5 R4.8 0.0 2000 0.0 R19.9 R2.8 3.9 14 0.0 61.0 R61 1.9 (s) R9.5 R10.5 R4.8 0.0 0.0 0.0 R20.0 R19.9 R2.8 3.9 1.4 0.0 61.0 R61 1.9 (s) R9.5 R10.8 R10.9 R2.7 0.0 0.0 R20.0	2010		H 17.9	2.3	3.9	0.2		56.3	62.7	1.7	(s)	H 1 7	H 87.0	H 21.1	0.0	H 334.5
2017 0.0 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (s) 11.1 11.0.7 11.9 1.0.7 11.9 2.1 2018 0.0 R21.4 3.8 4.1 1.1 0.0 64.5 73.5 1.9 (s) R9.7 R106.4 R8.8 0.0 2019 0.0 R27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) R9.5 R110.5 R4.8 0.0 2020 0.0 R19.9 R2.8 3.9 1.4 0.0 61.0 R6.1 1.9 (s) R18.9 R10.9 R2.3 0.0			R on a	2.6	3.7	0.8 0.8		55.1 52.7	62.3 59.6		(S)	11 9.1 R 8.0	R 89 9	H 10 /	(s)	R 324 1
2017 0.0 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (s) 11.1 11.0.7 11.9 1.0.7 11.9 2.1 2018 0.0 R21.4 3.8 4.1 1.1 0.0 64.5 73.5 1.9 (s) R9.7 R106.4 R8.8 0.0 2019 0.0 R27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) R9.5 R110.5 R4.8 0.0 2020 0.0 R19.9 R2.8 3.9 1.4 0.0 61.0 R6.1 1.9 (s) R18.9 R10.9 R2.3 0.0	2013	0.0	H 13 9	2.8	3.8	1.3	0.0	54.8	62.7	1.9	(s)	R 9.2	H 87.6	R 28.1	0.0	R 319.3 R 324.1 R 347.2 R 344.5 R 344.1 R 337.2
2017 0.0 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (s) 11.1 11.0.7 11.9 1.0.7 11.9 2.1 2018 0.0 R21.4 3.8 4.1 1.1 0.0 64.5 73.5 1.9 (s) R9.7 R106.4 R8.8 0.0 2019 0.0 R27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) R9.5 R110.5 R4.8 0.0 2020 0.0 R19.9 R2.8 3.9 1.4 0.0 61.0 R6.1 1.9 (s) R18.9 R10.9 R2.3 0.0			H 18 8	2.8	3.9			55.9	63.8	1.9	(s)	R 8.0	R 92.4	R 20.6	0.0	H 344.5
2017 0.0 17.9 2.7 4.1 1.2 0.0 62.8 70.7 1.9 (s) 11.1 11.0.7 11.9 1.0.7 11.9 2.1 2018 0.0 R21.4 3.8 4.1 1.1 0.0 64.5 73.5 1.9 (s) R9.7 R106.4 R8.8 0.0 2019 0.0 R27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) R9.5 R110.5 R4.8 0.0 2020 0.0 R19.9 R2.8 3.9 1.4 0.0 61.0 R6.1 1.9 (s) R18.9 R10.9 R2.3 0.0			H 16 /	3.0	4.1					1.9	(s)	™ 8.5 R 12.7	R 94.7	H 12 Ω		□ 344.1 R 337.2
2019 0.0 H27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) H9.5 H110.5 H-4.8 0.0 (s) H9.9 B2.8 3.9 1.4 0.0 61.0 R69.1 1.9 (s) H18.9 B109.8 B-3.7 0.0	2017		H 17.9	2.7	4.2	1.4	0.0	62.8	70.7	1.9	(s)	R 10.1	R 100.7	H 19.4		11344.2
2019 0.0 H27.0 3.3 4.0 0.9 0.0 63.8 72.1 1.9 (s) H9.5 H110.5 H-4.8 0.0 (s) H9.9 B2.8 3.9 1.4 0.0 61.0 R69.1 1.9 (s) H18.9 B109.8 B-3.7 0.0	2018	0.0	H 21 /	3.8	4.1	1.1	0.0	64.5	73.5	1.9	(s)	R 9.7	R 106.4	Hgg	0.0	R 353 8
2021 0.0 R17.0 R3.0 4.3 1.0 0.0 68.3 R76.6 1.9 (s) R31.8 R127.3 R-16.9 0.0	2019		H 27.0	3.3 B 2.2		0.9		63.8	72.1 B 60.1	1.9	(s)	H 9.5	H 110.5	H -4.8 B 2.7		R 350.8 R 338.8
	2020		R 17 0	R 3.0					R 76.6	1.9	(S)	H 31 8	R 127.3	R -16.9		R 348.0
2022 0.0 14.5 3.9 4.3 1.0 0.0 69.3 78.5 1.9 (s) 35.1 130.0 -17.8 0.0	2021 2022		14.5	3.9						1.9						R 348.0 358.4

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, South Dakota

_						Petroleum					Pi	nass						
						Petroleum				Hydro-	Bion	nass	-					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	electric power <sup>g,h</sup>					Electricity		Electrical	
Yea	Thousand r short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960		20		1,370	1,145	8,561	61	1,999	16,071	20					1,514			
1970		32		2,712	1,173	9,903	57	1,175	19,348	35					2,803			
1980 1990		24 25	4,743 5,907	2,530 3,691	1,311 1,097	9,688 8,986	114 60	909 1,054	19,295 20,795	32 0					5,084 6,334			
2000		34	5,900	2,597	1,024	10,304	133	1,964	21,921	0					8,283			
2005	278	39	6,798	2,201	996	10,273	62	2,010	22,341	0					9,811			
2006		37	6,825	2,171	945	10,217	29	1,863	22,050	0					10,056			
2007	273	50	7,652	2,409	880	10,330	35	1,244	22,549	0					10,603			
2008 2009		63 65	7,165 7,229	2,679 2,732	659 707	10,075 10,768	45 23	1,357 1,200	21,979 22,658	0					10,974 11,010			
2010		71	7,496	2,036	771	10,577	2	1,423	22,305	0					11,356			
2011	188	72		1,806	651	10,608	39	954	22,037	0					11,680			
2012		68	7,988	1,625	791	10,931	(s)	1,369	22,704	0					11,734			
2013		78		1,964	720	10,749	2	884	22,249	0					12,210			
2014 2015		77 73	7,878 7,954	1,883 1,638	984 928	10,973 11,390	5	870 891	22,592 22,806	0					12,355 12,102			
2015		73		1,818	836	11,553	8	R 745	R 22,592	0					12,130			
2017		75		1,748	825	11,415	9	R 898	R 22.407	0					12,314			
2018		80	7,997	1,983	666	11,404	8	R 859	R 22,918	0					12,857			
2019		81	8,028	2,335	720	11,058	9	R 947	R 23,098	0					12,869			
2020		76		1,915	668	10,703	10	R 1,093	R 23,526 R 23,530	0					12,696			
2021 2022	220 263	78 84		1,939 1,902	712 748	11,748 11,531	9	1,193	23,336	0					13,041 13,467			
			.,,	.,		,		.,	Trillion	Btu					,			
1960	2.5	20.8	17.1	5.3	6.1	45.0	0.4	12.0	85.9	R 0.1	4.5	NA	NA	NA	5.2	R 115.9	R 10.4	R 126.3
1960		20.8 32.1	17.1 25.2	10.4	6.3	45.0 52.0	0.4	7.5	101.8	R 0.1	1.5 1.1			NA NA	5.2 9.6		R 19.6	R 165.0
1980		23.8	27.6	9.4	7.1	50.9	0.7	5.8	101.5	R 0.1	3.3			NA NA	17.3		R 36.9	R 185 7
1990		25.2		13.5	5.9	47.2	0.4	6.7	108.2	0.0	2.2			(s)	21.6		R 30.1	R 192.4
2000		34.5		9.7	5.8	53.6	0.8	12.8	117.1	0.0	1.8			(s)	28.3		R 30.7	H 226.4
2005		39.3		8.1	5.6	53.3	0.4	13.2	120.2	0.0	1.5			(s)	33.5		R 58.9	R 283.4
2006 2007	4.6 4.6	37.5 49.8	39.6 44.3	8.0 8.9	5.4 5.0	53.0 53.1	0.2 0.2	12.2 8.1	118.3 119.5	0.0	1.4 1.5			(s) (s)	34.3 36.2	228.9 246.6	R 57.7 R 62.2	R 286.6 R 308.8
2007		62.8	41.4	10.0	3.7	51.4	0.2	8.9	115.7	0.0	1.5			(s)	37.4	267.3	R 63.7	R 331.0
2009		65.4	41.8	10.1	4.0	54.8	0.1	7.9	118.7	0.0	2.1			(s)	37.6		R 51.6	R 330.6
2010	2.9	71.3		7.8	4.4	53.6	(s)	9.3	118.4	0.0	2.3	56.3		(s)	38.7	291.6	R 42.8	R 334.5
2011	3.1	72.4	46.0	6.9	3.7	53.7	0.2	6.2	116.8	0.0	2.6		2.0	(s)	39.9	291.9	R 27.1	R 319.0
2012		69.0		6.2	4.5	55.3	(s)	8.9	121.1	0.0	2.3			(s)	40.0		R 33.6	R 324.0
2013		80.3 79.9		7.5 7.2	4.1 5.6	54.4 55.5	(s)	5.7 5.6	117.5 119.4	0.0	2.8 2.8			(s)	41.7 42.2	302.4 305.6	R 44.7 R 38.9	R 347.0 R 344.5
2014 2015		79.9 76.9	45.4 45.8	6.3	5.5	55.5 57.6	(s) (s)	5.8	120.8	0.0	3.0			(s) (s)	42.2		R 37.5	R 344.3
2016		77.2	43.9	7.0	4.7	58.4	(s)	4.8	118.9	0.0	2.7			(s)	41.4	305.7	R 31.6	R 337.3
2017	3.7	79.3	43.2	6.7	4.7	57.7	0.1	5.8	R 118.2	0.0	2.7	62.8	1.9	(s)	42.0	310.5	R 34.0	R 344 5
2018		85.7	46.1	7.6	3.8	57.6	0.1	R 5.6	120.7	0.0	3.8			(s)	43.9		R 30.6	R 354.0
2019		87.5		9.0	4.1	55.9	0.1	R 6.2	R 121.4	0.0	3.3			(s)	43.9	325.5	R 25.6	R 351.1
2020 2021	3.3 3.6	81.7 84.7	52.6 R 45.6	7.4 7.4	3.8 4.0	54.1 59.3	0.1 0.1	7.1 7.7	R 125.0 R 124.2	0.0	R 2.8 R 3.0			(s)	43.3 44.5		R 19.9 R 18.0	R 338.9 R 348.2
2021		90.6		7.4	4.0	58.2	0.1	7.7	123.3	0.0	3.9			(s) (s)	44.5 45.9		19.4	358.5
	4.2	30.0	45.0	7.5	7.2	50.2	J.1	7.0	120.0	0.0	0.0	39.3	1.3	(3)	40.0	555.1	15.4	000.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, South Dakota

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	system energy losses <sup>i</sup>	Total <sup>e,h</sup>
1960	72	8	567	1 053	903	2 524				847			
1965	72 39	10	567 677	1,053 1,182	903 524	2,524 2,383				1,183			
1970	18	14	763	1,984	14	2.761				1.586			
1975	7	12	763 574 762 772	1,969	3	2,545				2,068			
1980	4	11	762	1.150	10	1.922				2.623			
1985	4	11	772	694	35	1,501				2,769			
1990	1	10	936 501	1,709	4	2,648				2,866			
1995	1	13	501	1,366	4	1,871				3,268			
2000	(s)	13	351	1,643	4	1,997				3,423			
2005	(s)	12 12	229	1,230	3	1,462				3,973			
2006	(s)	12	219	1,136	2	1,358				4,051			
2007	(s)	12	177	1,273	2	1,452				4,261			
2008	0	14	218	1,704		1,924				4,406			
2009 2010	0	14 13	126 127	1,569 1,313	1	1,696 1,442				4,511 4,628			
2010	0	13	127	1,313	2	1,442				4,628			
2011	0	13	122	1,259	1	1,382				4,646			
2012 2013	0	11	109 93	1,050	(s)	1,159				4,454 4,824			
2013	U	14	93	1,213	(s)	1,306				4,824			
2014	0	14 12	85 82 73 66	1,156 1,023	(s)	1,241 1,106				4,827 4,571			
2016	0	12	72	1,117	(s)	1,100				4,619			
2017	0	12	73	1,117	(s)	1,120				4,019			
2017	0	14	114	1,054 1,237 1,528	(s)	1,120				4,653 5,018			
2019	0	14 15	92	1,237	(s)	1,351 1,620				5,057			
2010	0	13	73	1 127	(3)	1,020				5,037			
2020 2021	ő	13 12	73 89	1,127 1,122	i	1,200 1,212				5,070 5,044			
2022	ŏ	15	96	1,132	i	1,230				5,323			
						·	Trillion Btu			·			
1960	1.4	7.9	3.3	4.0	5.1	12.5	1.2	NA	NA	2.9	25.9	Rse	R 31.7
1965	0.8	10.1	3.9	4.0	3.0	11.5	0.8	NA NA	NA	4.0	27.1	R 5.8 R 7.9	R 35 1
1970	0.3	13.8	4.4	7.6	0.1	12.1	0.0	NA	NA	5.4	32.4	R 11.1	R 43 5
1975	0.1	13.8 12.0	3.3	4.0 4.5 7.6 7.6	(s)	10.9	0.7 0.7	NA	NA	7.1	30.8	R 14 4	R 35.1 R 43.5 R 45.2
1980	0.1	10.5	4.4	4.4	0.1	8.9	2.5	NA	NA	8.9	31.0	R 14.4 R 19.0 R 19.2 R 13.6 R 10.5 R 12.7 R 23.9 R 23.2 R 25.0 R 25.6 R 21.2 R 17.5 R 10.8 R 12.8 R 17.6	R 50.0 R 50.8 R 47.6 R 44.2
1985	0.1	11.5	4.5	2.7	0.2	7.4	2.5 3.2	NA	NA	9.4	31.6	R 19.2	R 50.8
1990	(s)	10.4	5.5	6.6	(s)	12.0	1.8		(s)	9.8	34.0	R 13.6	R 47.6
1995	(s)	12.8	2.9	5.2	(s)	12.0 8.2	1.6	(s) (s)	(s)	11.2	33.7	R 10.5	R 44.2
2000	(s)	12.7	2.0	6.3	(s)	8.4	1.3	0.1	(s)	11.7	34.0	R 12.7	R 46.7 R 57.1 R 55.4 R 59.2
2005	(s)	12.3	1.3	4.7	(s)	6.1	1.2	0.1	(s)	13.6	33.2	R 23.9	<sup>R</sup> 57.1
2006 2007	(s)	11.5 12.4	1.3 1.0	4.4 4.9	(s)	5.7	1.0 1.1	0.2 0.2	(s)	13.8 14.5	32.2 34.2	R 23.2	R 55.4
2007	(s)	12.4	1.0	4.9	(s)	5.7 5.9 7.8	1.1	0.2	(s)	14.5	34.2	H 25.0	R 59.2
2008	0.0	13.6	1.3	6.5	(s)	7.8	1.3	0.3	(s)	15.0	38.1	H 25.6	n 63 /
2009	0.0	13.6	0.7 0.7	6.0	(s)	6.8 5.8	1.3 1.7 1.8	0.4	(s)	15.4	37.9	H 21.2	R 59.0 R 54.2
2010	0.0	12.9	0.7	5.0	(s)	5.8	1.8	0.4	(s)	15.8	36.7	H 17.5	H 54.2
2011	0.0	13.0 10.9	0.7	4.8 4.0	(s)	5.5 4.7 5.2	1.7 1.5	1.0	(s)	15.9 15.2	37.1	H 10.8	R 47.9 R 45.7 R 56.2
2012	0.0	10.9	0.6	4.0	(s)	4.7	1.5	0.6	(s)	15.2	32.9	n 12.8	n 45.7
2013	0.0	14.4	0.5	4.7	(s)	5.2	1.9	0.6	(s)	16.5	38.6	n 17.6	n 56.2
2014 2015	0.0	14.8	0.5 0.5	4.4	(s)	4.9 4.4	1.9 2.0	0.6	(s)	16.5 15.6	38.8 35.1	R 15.2 R 14.2 R 12.0 R 12.8	R 50.2 R 54.0 R 49.2 R 47.1 R 48.1 R 52.9 R 52.6
2015	0.0	12.4	0.5	3.9	(s)	4.4	2.0	0.6	(s)	15.6	35.1	n 14.2	n 49.2
2016	0.0	12.3 12.8	0.4	4.3	(s)	4.8	1.6	0.6	(s)	15.8 15.9	35.1 35.3	" 12.0 B 40.0	" 4/.1 B 40.1
2017	0.0		0.4	4.0	(S)	4.4	1.5	0.6	(S)			R 12.8 R 11.9	'' 48.1 B 50.0
2018	0.0	15.2	0.7 0.5	4.8	(s)	5.4	2.5	0.6 0.6	(s)	17.1	40.9	R 10.1	H 52.9
2019	0.0	16.0	0.5	5.9	(s)	6.4	B 1.2		(s)	17.3	42.5 R 20.0	IU.I	B 46 0
2020 2021	0.0 0.0	14.2 13.4	0.4 0.5	4.3 4.3	(s) (s)	4.7 4.8	2.0 1.6 1.5 2.5 2.2 R 1.3 R 1.1	0.6 0.6	(S) (S)	17.3 17.2	42.5 R 38.2 R 37.2	R 8.0 R 6.9	40.2 R 11
2021	0.0	15.7	0.5	4.3	(S) (S)	4.0	1.9	0.6	(S) (S)	17.2	41.3	7.7	R 46.2 R 44.1 49.0
_0_2	0.0	10.7	0.0	7.0	(3)	7.0	1.3	0.0	(3)	10.2	71.0	1.1	₩.0.0

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, South Dakota

					Pet	roleum			Ukadaa	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	50	7	226	202	0	37	16	480	NA			NA	409			
1965 1970	29 14	9 11	269 303	227 381	0	46 50	8 16	549 750	NA NA			NA NA	645 937			
1975	17	11	228	378	0	58 65	20	684	NA			NA	995			
1980 1985	13 13	9 10	365 288	221 133	1	98	19 19	670 539	NA NA			NA NA	1,139 1,863			
1990 1995	2 6	9 11	242 301	328 262	(s)	78 11	24 2	672 577	0			0	1,811 2,424		 	 
2000	1	10	195 204	315	1	11	69	591	Ö			Ō	2,857			
2005 2006	1	10 10	158	185 204	3 1	12 12	(s) 1	404 376	0 0			0 0	3,998 4,054			
2007 2008	1	10 11	225 166	289 342	(s)	12 12	12	538 529	0			0	4,181 4,240			
2009	7	12	172	425	(s) (s)	12	3	611	0			0	4,238			
2010 2011	8	11 11	195 232	358 242	(s)	12 12	2 (s)	568 487	0			0	4,368 4,447		 	
2012	2	9	178	216	(s)	12	(s) (s)	406	Ö			ŏ	4,557			
2013 2014	0	12 12	169 144	216 318	(s) (s)	12 12	(s) 0	397 474	0			(s)	4,662 4,572		 	
2015	0	10	134	184	(s)	129	0	447	0			(s)	4.749			
2016 2017	0	10 11	120 106	226 285	(s) (s)	132 133	0	478 525	0			(s) (s)	4,698 4,723			
2018 2019	0	13 13	114 144	240 215	(s) (s)	132 133	8 9	494 502	0			(s) (s)	4,903 4,888			
2020	0	12	224	219	(s)	133	10	586	0			1	4,696			
2021 2022	0	11 13	142 151	186 165	(s) (s)	134 150	6 6	468 472	0			1	4,792 4,936			
	-	-			(-)				lion Btu				,			
1960	1.0	7.5	1.3	0.8	0.0	0.2	0.1	2.4 2.7	NA	(s)	NA	NA	1.4	12.2	R 2.8 R 4.3	R 15.0
1965 1970	0.6	8.8 11.4	1.6	0.9 1.5	0.0 0.0	0.2 0.3	(s) 0.1	2.7 3.6	NA NA	(s) (s)	NA NA	NA NA	2.2 3.2 3.4	14.3 18.5	Res	R 18.6 R 25.0
1975	0.3 0.3	11.5	1.8 1.3	1.5	0.0	0.3	0.1	3.2	NA	(s)	NA	NA	3.4	18.4	R 6.9	R 25.0 R 25.3
1980 1985	0.2 0.3	8.5 10.1	2.1 1.7	0.8 0.5	0.0 (s)	0.3 0.5	0.1 0.1	3.4 2.8	NA NA	0.1 0.1	NA NA	NA NA	3.9 6.4	16.1 19.6	R 8.3 R 12.9	R 24.4 R 32.5
1990	(s) 0.1	8.7	1.4	1.3	(s)	0.4	0.2	3.2	0.0	0.2	0.1	0.0	6.2 8.3	18.4 22.4	R 12.9 R 8.6 R 7.8	R 27.1 R 30.2
1995 2000	(s)	10.8 10.2	1.8 1.1	1.0 1.2 0.7	(s) (s)	0.1 0.1	(s) 0.4	2.8 2.8	0.0 0.0	0.2 0.2 0.2	0.2 0.3	0.0 0.0	9.7	23.3	R 10.6	R 33.9
2005 2006	(s)	9.9 9.6	1.2 0.9	0.7 0.8	(s) (s)	0.1 0.1	(s)	2.0 1.8	0.0 0.0	0.2 0.2	0.6 0.7	0.0 0.0	13.6 13.8	26.3 26.0	R 24.0 R 22.2	R 50.4 R 49.3
2007	(s)	10.4	1.3	1.1	(s)	0.1	(s) 0.1	2.6	0.0	0.2	0.7	0.0	14.3	28.1	R 23.3 R 24.5 R 24.6	R 52 6
2008 2009	0.2 0.2	11.4 11.6	1.0 1.0	1.3 1.6	(s)	0.1 0.1	0.1 (s)	2.4 2.7	0.0 0.0	0.2 0.2	0.8 0.9	0.0 0.0	14.5 14.5	29.5 30.1	<sup>R</sup> 24.6 <sup>R</sup> 19.9	R 54.1 R 50.0
2010	0.2	11.1	1.1	1.4	(s)	0.1	(s)	2.6	0.0	0.2	1.0	0.0	14.9	30.0	R 16.5	R 46.5
2011 2012	0.0 (s)	11.2 9.5	1.3 1.0	0.9 0.8	(s) (s)	0.1 0.1	(s) (s)	2.3 1.9	0.0 0.0	0.2 0.2	0.7 1.0	0.0 0.0	15.2 15.5	29.6 28.2	R 10.3 R 13.1	R 40.0 R 41.2
2013	(s) 0.0	12.5	1.0	0.8	(s)	0.1	(s) 0.0	1.9	0.0	0.2	1.0	0.0	15.9	31.5	R 17.1 R 14.4	R 48.5 R 46.1
2014 2015	0.0 0.0	12.8 11.0	0.8 0.8	1.2 0.7	(S) (S)	0.1 0.7	0.0	2.1 2.1	0.0 0.0	0.2 0.3	1.0 1.0	(s) (s)	15.6 16.2	31.7 30.6	H 14.7	n 45.3
2016 2017	0.0 0.0	11.0 11.4	0.7 0.6	0.9 1.1	(s)	0.7 0.7	0.0 0.0	2.2 2.4	0.0 0.0	0.3 0.3	1.0 1.0	(s)	16.0 16.1	30.5 31.1	R 12.2 R 13.0	R 42.8 R 44.2
2018	0.0	13.4	0.7	0.9	(s)	0.7	0.1	2.3	0.0	0.4	1.0	(s)	16.7	33.8	R 11.7 R 9.7	H 45.4
2019 2020	0.0 0.0	14.5 12.8	0.8 1.3	0.8 0.8	(s)	0.7 0.7	0.1 0.1	2.4 2.9	0.0 0.0	0.3 0.3	1.0 1.0	(s)	16.7 16.0	34.9 32.9	н 9.7 R 7.4	R 44.6 R 40.3
2021	0.0	12.4	0.8	0.7	(s)	0.7	(s)	2.2	0.0	0.2	1.0	(s)	16.3	32.2	R 6.6	R 38.8
2022	0.0	14.2	0.9	0.6	(s)	0.8	(s)	2.3	0.0	0.3	1.0	(s)	16.8	34.6	7.1	41.7
a Inc	ludos supplomo	ental naseous fue	le that are comm	ningled with no	atural gae				other feed fo	iole from which	thou are mostly	dorived but should	t he counted only	onco in End He	se and Total For 1	981 through 1992

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, South Dakota

					Petro	eum			Hvdro-	Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>C</sup>	Residual fuel oil	Other d	Total	electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet	1		Thousand	d barrels	'		Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion :Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960	5	5	1,780 2,177	93	2,615	35	816	5,339 5,397	20				NA	258 246			
1965 1970	4 5	5	2,177 2,332	108 298	2,455 2,209	35 15 35 52 95	642 911	5,397 5,784	38 35				NA NA				
1975	59	6	1,635	527	1,626	52	884	4,725	36				NA NA	994			
1980	127	5	1.640	1.090	1,473	95	646	4.943	32				NA	1,322			
1985 1990	279 223	4	1,734 2,377	389 1,632	694 489	16 36	850 797	3,683 5,330	32 0				NA 0				
1995	393	7	2,202	652	534	11	847	4,246	0	==			0		==		
2000	602	5	1,930	625	418	63 62	1,746	4,783	0				0	2,003			
2005 2006	277 275	11 11	1,804 1.696	773 818	791 845	62	1,836 1.675	5,266 5,062	0				0	.,0.0			
2007	273	21	2,108	830	557	28 22 36	1,054	4,570	0				0	2.161			
2008	194	33	1,914	592	402	36	1,193	4,136	Ö				Ö	2,161 2,328			
2009 2010	124 162	37 41	1,946 1,754	715 362	420 323	19 0	1,062 1,287	4,163 3,726	0				0	2,260 2,360			
2010	188	41	2.270	299	327	38	822	3,755	0				0	2.586			
2012	188 202	41	1,965 2,213	353 527	309	0	1,238 757	3,866	Ö				Ö	2,724 2,724			
2013 2014	206 215	45 45	2,213 1.885	527 400	316 296	1	757 733	3,815 3,318	0				0	2,724 2,955			
2015	197	45	1,926	418	283	5	752	3.383	0	==			0				
2016	212	45	1,902	463	257	8	R 607	R 3 237	0				0	2.813			
2017	224 181	46 47	1,800	404 487	259 261	9	R 778 R 740	R 3,250 R 3,369	0				0	2,938 2,935			
2018 2019	218	46	1,880 1.847	561	250	0	R 834	н 3.492	0				0	2,935			
2020	193	46	2,732	562	254	0	R 981	R 4,529	0				0	2,929			
2021 2022	220 263	49 50	1,852 1,872	629 599	258 265	3	R 982 961	R 3,724 3,700	0				0 (s)				
2022	200	30	1,072	333	200	3	301	3,700	Trillion Bt				(3)	3,200			
1960	0.1	5.3	10.4	0.4	13.7	0.2	5.3	30.0	R <sub>0.1</sub>	0.3	NA	NA	NA	0.9	R 36.7	R 1.8	R 38.5
1965	0.1	5.3 4.7	12.7	0.4	12.9	0.1	4.2	30.3	R 0.1	0.3	NA	NA	NA	0.8	R 36 3	R <sub>17</sub>	R 37 a
1970 1975	0.1	6.8	13.6	1.1	11.6	0.2	6.0	32.5	R 0.1 R 0.1	0.5	NA	NA	NA		R 41.0	R 2.0	R 43.0 R 44.2
1975	1.1 2.4	5.8 4.7	9.5 9.6	1.9 3.8	8.5 7.7	0.3 0.6	5.9 4.3	26.1 26.0	R 0.1	0.8 0.7	NA NA	NA NA	NA NA	3.4 4.5	R 37.3 R 38.5	R 6.9 R 9.6	R 48.1
1985	4.8	3.6	10.1	1.3	3.6	0.1	5.6	20.8	R 0.1	0.9	0.0	NA	NA	3.5	H 33.7	H71	R 40.8
1990	3.9	6.0	13.8	5.6	2.6	0.2	5.3	27.5	0.0	0.2		(s)	0.0		43.9	R 7.9 R 5.5	R 51.8 R 50.3
1995 2000	6.8 12.6	7.4 5.3	12.8 11.2	2.3	2.8 2.2	0.1 0.4	5.6 11.6	23.5 27.5	0.0	0.3 0.3	0.8 1.0	(s) 0.1	0.0	5.9	44.7 53.6	R74	R 61.0
2005	4.6	11.3	10.5	2.1 2.7	4.1	0.4	12.2	27.5 29.8	0.0	0.2	24.4	(s)	0.0	6.3	53.6 76.6	R 11 1	R 97 7
2006 2007	4.6	11.0 21.3	9.8 12.2	2.8 2.8	4.4 2.9	0.2 0.1	11.1 7.0	28.3 25.0	0.0	0.2 0.2	31.6 33.6	(s) 0.1	0.0		82.4 92.2	R 11.2	R 93.6 R 104.8
2007	4.6 3.3	33.1	12.2	2.8	2.9	0.1	7.0	23.2	0.0	0.2	44.4	0.1	0.0		112.4	R 12.7 R 13.5	R 125.9
2009	2.1 2.7	36.9	11.2	2.4	2.1	0.1	7.0	22.9 21.7	0.0	0.2	51.3	0.2	0.0	7.7	121.4	R 10.6 R 8.9	H 132.0
2010		41.5	10.1	1.4	1.6	0.0	8.5	21.7	0.0	0.3	56.3	0.3	0.0		130.8	H 8.9 H 6.0	R 139.7 R 137.0
2011 2012	3.1 3.4	41.5 42.0	13.1 11.3	1.1 1.4	1.7 1.6	0.2 0.0	5.4 8.2	21.6 22.4	0.0 0.0	0.7 0.6	55.1 52.7	0.3 0.3	0.0 0.0		131.0 130.7	R 7.8	R 138.5
2013	3.4	46.3	12.8	2.0	1.6		5.0	21.4	0.0	0.7	54.8	0.3	0.0	9.3	136.2	H 10 0	H 146 2
2014	3.5	46.9	10.9	1.5	1.5	(s) (s) (s) (s) 0.1	4.8	18.8	0.0	0.7	55.9	0.3	0.0		136.1	R 9.3 R 8.6	R 145.4
2015 2016	3.3 3.5	47.3 47.1	11.1 10.9	1.6 1.8	1.4 1.3	(S)	5.0 4.0	19.1 18.1	0.0	0.7 0.7	59.6 60.2	0.3 0.3	0.0	9.5 9.6	139.8 139.5	R 7 3	R 148.4 R 146.8
2017	3.7	48.2	10.4	1.6	1.3		5.1	R 19./	0.0	0.8	62.8	0.3	0.0	10.0	R 144 2	R 8 1	R 152.3
2018	3.0	50.1	10.8	1.9	1.3	0.0	R 4.9	R 18.9 R 19.6	0.0	0.9		0.3	0.0		H 147.7	R 7.0 R 5.8	R 154.7 R 153.8
2019 2020	3.7 3.3	49.9 49.1	10.6 15.7	2.2 2.2	1.3 1.3	0.0 0.0	5.5 R 6.5	25.6	0.0 0.0	0.9	63.8 61.0	0.3 0.3	0.0		148.0 150.4	H46	H 153.8 E 155.0
2021	3.6	52.6	10.7	2.4	1.3	(s) (s)	H 6.5	20.9	0.0	1.2 1.7	68.3	0.3	0.0	10.9	158.3	R 4.4	R 162.8
2022	4.2	54.0	10.8	2.3	1.3	(s)	6.3	20.8	0.0	1.7	69.3	0.3	(s)	10.9	161.2	4.6	165.8

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014

and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, South Dakota

						Po	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	(s)	(s)	106	362	22	1,145	174	5,909	11	7,729	0			
1965 1970	(s) (s) (s)	(s) (s)	128	635	24	1,111	143	6,454 7,645	1	8,496 10,052	0			
1970 1975	(S)	(s) (s)	128 99 77	635 929 1,337	22 24 50 57	1,173 1,056	151 140	7,645 8,952	6	10,052 11,618	0			
1980	(s) 0	(s)	97	1.977	69	1.311	156	8.150	Ö	11.760	ŏ			
1985 1990	0	(s)	87 93	2,322 2,352	24 23	1,019	142 160	8,487 8,419	0	12,081 12,145	0			
1990	0	(s)	93 46	3 203	15	1,097 1,463	152	8,419 9,462	(s)	12,145	0		==	
2000 2005	Ö	6	51	3,425 4,562 4,752 5,142	14	1,024 996 945	163 137	9,875 9,470	Ö	14,551 15,209	Ŏ			
2005	0	6	31	4,562	13	996	137	9,470	0	15,209	0			
2006 2007	0	5 6	51 50	4,752 5 142	12 16	880	134 138	9,360 9,761	0	15,254 15,988	0		 	
2008	Ö	5	34 21	4,866 4,985	41 24	659 707	128 115	9,662 10,336	Ö	15,390 16,188	Ŏ			
2009	0	3	21	4,985	24	707	115	10,336	0	16,188	0			
2010	0	6 7	29 32 32	5,419 5,355	3	771 651	105	10,242	0	16,569 16,413	0			
2011 2012	ŏ	6	32	5,355 5,736	6	651 791	99 98 98	10,270 10,610	ŏ	16,413 17,274	ő			
2013	0	7	29	5,456	8	720	98	10,421	0	16,732	0			
2014 2015	0	5	33 25	5,763 5,811	9 14	720 984 928	103 114	10,666 10,978	0	17,559 17,870	0			
2016	0	6	29 33 25 25 23	5,536	13	836	R 106	11,164	ő	17,870 R 17,680 R 17,512	0			
2017	0	7	23	5.540	4	825	96	11.022	0	R 17,512	0			
2018 2019	0	7	25 24	5,889 5,945	19 32	666 720	R 94 R 89	11,010 10,675	0	R 17,703 17,484	0	 		
2020	ő	5	25	6.110	7	668	R 86	10,316	0	H 17.212	Ŏ			
2021	0	6	25 24 25	R 5,832	3	668 712 748	R 89	11,356	0	H 18,127	0			
2022	0	6	25	5,833	7	/48	93	11,116	0	17,934	0			
								llion Btu						
1960 1965	(s) (s) (s) (s)	(s) (s) (s)	0.5 0.6	2.1 3.7	0.1 0.1	6.1 6.0	1.1 0.9	31.0	0.1 (s)	41.0 45.2	0.0 0.0	41.1 45.2	0.0 0.0	41.1 45.2
1970	(s)	(s)	0.5	5.4	0.2	6.3	0.9	33.9 40.2 47.0	(s)	53.5	0.0	53.6	0.0	53.6
1970 1975	(s)	(s) 0.1	0.4	5.4 7.8	0.2	6.3 5.7 7.1	0.9 0.8	47.0	(s)	53.5 62.0	0.0	62.0	0.0	53.6 62.0
1980 1985	0.0 0.0	0.1 0.2	0.5 0.4	11.5 13.5	0.3 0.1	/.1 5.5	0.9 0.9	42.8 44.6	0.0 0.0	63.1 65.0	0.0 0.0	63.2 65.5	0.0 0.0	63.2 65.5
1990	0.0	0.1 2.8	0.5 0.2	13.7	0.1	5.5 5.9 7.9	1.0	44.2 49.2	(s)	65.4 77.0	0.0	66.0	0.0	66.0
1995	0.0	2.8	0.2	18.6	0.1	7.9	0.9	49.2	(s) 0.0	77.0	0.0	79.8	0.0	79.8
2000	0.0 0.0	6.3 5.8	0.3	19.9	0.1 0.1	5.8	1.0	51.4 49.2	0.0	78.4 82.4	0.0 0.0	84.7 88.3	0.0 0.0	84.7 88.3
2005 2006	0.0	5.8 5.4	0.2 0.3	26.5 27.6	(s) 0.1	5.8 5.6 5.4	0.8 0.8	49.2 48.5	0.0 0.0	82.4 82.6	0.0	88.3	0.0	88.3 88.3
2007	0.0	5.7	0.3	29.7	0.1	5.0 3.7 4.0 4.4	0.8	50.2	0.0	86.1	0.0	92.1	0.0	92.1 87.3 89.6 94.2
2008	0.0 0.0	4.7 3.2 5.8	0.2 0.1	28.1	0.2 0.1	3.7	0.8 0.7 0.6	49.3 52.6 51.9	0.0	82.3 86.3 88.4	0.0 0.0	87.3 89.6	0.0 0.0	87.3 89.6
2009 2010	0.0	5.8	0.1	28.8 31.3		4.4	0.6	51.9	0.0 0.0	88.4	0.0	94.2	0.0	94.2
2011	0.0	6.7	0.2	30.9	(s) (s) (s) (s)	3.7 4.5 4.1	0.6 0.6 0.6	52.0 53.7 52.7	0.0	87.4	0.0	94.1	0.0	94.1
2012 2013	0.0 0.0	6.5 7.1	0.2 0.1	33.1 31.4	(S)	4.5 4.1	0.6 0.6	53.7 52.7	0.0 0.0	92.1 89.0	0.0 0.0	98.6 96.1	0.0 0.0	98.6 96.1
2014	0.0	5.4	0.2	33.2	(s) 0.1	5.6	0.6	54.0	0.0	93.6	0.0	99.0	0.0	99.0
2015	0.0	6.2 6.8 6.9	0.1	33.5	0.1	5.6 5.3 4.7 4.7	0.7	54.0 55.5 56.4 55.7	0.0	93.6 95.1 93.9 93.0	0.0	101.3	0.0	101.3
2016 2017	0.0 0.0	6.8 6.9	0.1 0.1	31.9 31.9	(s) (s) 0.1	4./ 4.7	0.6 0.6	56.4 55.7	0.0 0.0	93.9 93.0	0.0 0.0	100.6 99.9	0.0 0.0	100.6 99.9
2018	0.0	7.0	0.1	33.9	0.1	3.8	0.6	55.6	0.0	94.1	0.0	R 101.1	0.0	R 101.1
2019	0.0	7.1	0.1	34.2	0.1	3.8 4.1 3.8	0.5	53.9	0.0	93.0	0.0	100.1	0.0	100.1
2020 2021	0.0 0.0	5.6 6.2	0.1 0.1	35.2 R 33.6	(S)	პ.8 4 ი	0.6 0.5 0.5 0.5	55.6 53.9 52.1 57.3	0.0 0.0	91.7 R 96.3	0.0 0.0	97.3 R 102.5	0.0 0.0	97.3 R 102.5
2022	0.0	6.7	0.1	33.6	(s) (s) (s)	4.0 4.2	0.6	56.1	0.0	95.3	0.0	102.0	0.0	102.0
				nd since 1990 also							ended into motor gas			

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, South Dakota

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	246 237	4	7	0	40 47	47	0	1,136		0	NA	NA	0	
1960 1965 1970	237	3	. 8	0	47	47 55 318	0	3,835 6,544		0	NA	NA	0	
1970	301	4 3	48 67 58 39 32 48	0	270 145	318	0	6,544 7,800		0	NA NA	NA NA	0	
1975 1980	1,804 2,683	(s)	58	0	9	212 67	0	7,890 5,786		0	NA	NA NA	0	==
1985	2.407	(s)	39	0	1	40	0	5.301		0	0	0	0	
1990 1995	2,345 2,137	(s)	32	0	0	32 48	0	3,934 6,010		0	0	0	0	
2000	2,137	1	48 136	0	0	48 136	0	5,010 5,716		0	0	0	13	
2000 2005	2,211 1,880	4	136 52 19	ő	ő	136 52 19	ő	5,716 3,075		Ő	ő	158 149	(s)	
2006	2 064	3	19	0	0	19	0	3 397		0	0	149	0	
2007 2008	1,691 2,359	4	140	0	0	140 50	0	2,917 2,993		0	0	150 145	(s)	
2008	2,359	3	140 50 24 18	0	0	50 24	0	2,993 4,432		0	0	145 421	(s)	
2009 2010	2,107 2,164	2	18	ő	Ŏ	18	ő	5,239		0	Ŏ	421 1,372	0	
2011	1,768	2	21 18	0	0	21	0	6,608		0	0	2,668 2,354 2,688 2,336	(s)	
2012	1,950 1,847	2	18	0	0	18	0	5,981		0	0	2,354	0	
2013 2014	1,847	4	21	0	0	21 23	0	4,063 5,498		0	0	2,688	0	
2015	990	6	21 23 38	ŏ	ŏ	38	ŏ	4 850		ŏ	ŏ	2,498	ŏ	
2015 2016	1,403 1,355	7	11	0	0	11	0	4,806		0	(s)	2,498 3,714	0	
2017	1,355	6 9	15	0	0	15	0	5,256		0	2	2,958	0	
2018 2019	1,493 1,690	9	20 34	0	0	20 34	0	6,266 7,915		0	2 2	2,835 2,789	0	
2020	1,130	9	19	0	0	19	0	5 831		0	2	5.544	0	
2020 2021 2022	1,130 1,092	11	85 45	0	0	19 85 45	0	4,983 4,259		0	2	9,327 10,295	0	
2022	1,249	12	45	0	0		0	4,259		0	2	10,295	0	
							Trillion Btu	Paa						
1960 1965	4.2 4.2	4.6 3.3	(s) (s)	0.0 0.0	0.3 0.3	0.3 0.3	0.0 0.0	R 3.9 P 13.1	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	R 13.0 R 21.0
1900	4.2 5.0	3.3 4.4	(S)	0.0	1.7	2.0	0.0	R 22.3	0.0	0.0	NA NA	NA NA	0.0	R 33 7
1970 1975	5.0 22.8	3.2	0.3 0.4	0.0 0.0	1.7 0.9	2.0 1.3	0.0 0.0	R 22.3 R 26.9 R 19.7	0.0	0.0	NA	NA	0.0	R 54.2
1980	33.8 29.4	0.3	0.3	0.0	0.1	0.4	0.0	H 19.7	0.0	0.0	NA	NA	0.0	R 33.7 R 54.2 R 54.2 R 47.7
1985	29.4	(s) 0.2	0.3 0.2 0.2 0.3	0.0 0.0	(s) 0.0	0.2	0.0 0.0	R 18.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	Π 47.7 R 44 Ω
1985 1990 1995	31.0 30.5	0.2	0.2	0.0	0.0	0.2 0.3	0.0	R 20.5	0.0	0.0	0.0	0.0	0.0 0.0	R 52.2
2000	38.0 32.3 35.0	0.9 3.7	0.8	0.0	0.0	0.8	0.0	R 13.4 R 20.5 R 19.5 R 10.5 R 11.6	0.0	0.0	0.0	0.0	(s) (s) 0.0	R 44.8 R 52.2 R 62.0 R 47.3 R 50.5 R 44.2 R 53.3 R 52.9 R 60.5
2005 2006	32.3	3.6	0.3 0.1	0.0	0.0	0.3	0.0	H 10.5	0.0	0.0	0.0	0.0 R 0.5 R 0.5 R 0.5 R 0.5 R 1.4 R 4.7 R 9.1	(s)	H 47.3
2006	35.0	3.4	0.1	0.0 0.0	0.0	0.1 0.8	0.0	" 11.6 R 10.0	0.0 0.0	0.0 0.0	0.0	11 0.5 R o 5	0.0	11 50.5 R 44 2
2007 2008	28.6 39.6	4.3 2.6	0.8 0.3	0.0	0.0 0.0	0.3	0.0 0.0	R 10.0 R 10.2	(s)	0.0	0.0 0.0	R 0.5	(s) 0.0 (s) 0.0	R 53.3
2009	35.2 36.2	0.9	0.1	0.0	0.0	0.1	0.0	R 15.1 R 17.9 R 22.5	0.1	0.0	0.0	R 1.4	(s)	R 52.9
2010	36.2	1.6	0.1	0.0	0.0	0.1	0.0	H 17.9	0.0	0.0	0.0	H 4.7	0.0	H 60.5
2011	29.0	1.6	0.1	0.0 0.0	0.0 0.0	0.1 0.1	0.0	11 22.5 R 20.4	0.0 0.0	0.0 0.0	0.0	'' 9.1 R o n	(s) 0.0 0.0	" 62.4 R 63.2
2012 2013	32.2 30.8	2.5 4.2	0.1 0.1	0.0	0.0	0.1	0.0 0.0	R 20.4 R 13.9	0.0	0.0	0.0 0.0	R 9.2	0.0	R 63.2 R 58.2
2014	29.5	4.0	0.1 0.2	0.0	0.0	0.1	0.0	R 18.8	0.0	0.0	0.0	R 8.0	0.0	H 60 4
2015	29.5 16.3 23.2	6.5 7.9	0.2	0.0	0.0	0.2	0.0 0.0	R 18.8 R 16.5 R 16.4	0.0	0.0	0.0	R 8.0 R 9.2 R 8.0 R 8.5 R 12.7	0.0 0.0 0.0	R 48.0 R 60.2
2016	23.2 22 A	7.9 6.1	0.1 0.1	0.0 0.0	0.0 0.0	0.1 0.1	0.0	H 17 0	0.0 0.0	0.0 0.0	(s) (s)	R 10.1	0.0	R 56 6
2017 2018	22.4 24.6	9.8	0.1	0.0	0.0	0.1	0.0 0.0	R 21.4	0.0	0.0	(s)	R 9.7	0.0 0.0 0.0	R 56.6 R 65.6
2019	27.7	9.9	0.2	0.0	0.0	0.2	0.0	R 21.4 R 27.0 R 19.9	0.0	0.0	(s)	R 9.5	0.0	H 74.4
2020	18.4	9.5	0.1	0.0	0.0	0.1	0.0	H 19.9	0.0	0.0	(s)	H 18.9	0.0	R 66.9
2021 2022	18.0 20.6	12.1 12.7	0.5 0.3	0.0 0.0	0.0 0.0	0.5 0.3	0.0 0.0	R 17.0 14.5	0.0 0.0	0.0 0.0	(s) (s)	R 10.1 R 9.7 R 9.5 R 18.9 R 31.8 35.1	0.0 0.0	R 79.4 83.1
	20.0	12.7	0.0	0.0	0.0	0.0	0.0	1-1.5	0.0	0.0	(3)	00.1	0.0	00.1

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Tennessee

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet	100.01	1122		Thousand barrels		2 11101			illion kilowatthou			nd barrels
Teal	SHOIT TOHS	cubic leet				Tilousaliu balleis	'			IVI	illon kilowattiloui	5	Tilousan	u parreis
1960	15,438	147	5,291	1,311	570	27,268	188 287	7,623	42,250	0	8,676	0	NA	NA
1965 1970	14,172 17,726	202 256	7,295 10.952	1,912 3,182	1,174 3.335	32,481 41.869	287 597	10,425 11.692	53,574 71,627	0	8,750 8,067	0	NA NA	NA NA
1970 1971	16,661	256 265	10,952 11,565	3,187	3,335 3,335	41,869 44,504	597 373	11,692 11,303	71,627 74,267	0	8,067 9,420	0	NA	NA
1972 1973 1974	19,920 23,870	277 294	14,332 15,816	3,515 3,825	3,439 3,795	48,333 52,393	518 645	11,661 12,821	81,798 89,296	0	11,132 11,452	0	NA NA	NA NA
1974	21 319	260	16 202	3 453	3 837	51 635	869	10.581	86 576	0	11 767	0	NA	NA
1975 1976	21,308 24,878	217 212	17,479 22,011	3,830 3,766	3,936 4,105	53,735 56,247	714 2,963	11,000 11,749	90,694 100,840	0	11,806 9,474	0	NA NA	NA NA
1977	24.753	202 184	24.108	3,545	4.377	57,655 60,053	3.370	12,990 13,003	106.045	Õ	10,396 8,783	Õ	NA	NA
1978 1979	24,854 23,453	184 226	27,395 24,146	3,545 3,662 3,008	4,683 4,895	60,053 57,140	2,284 2,445	13,003 11,757	111,080 103,392	0	8,783 12,306	0	NA NA	NA NA
1980 1981	24,687	230 224	19,176	2,787 1,515	4 154	54,948 54,603	1,499 1,227	9,367	91,930 90,022	519	8.764	Ö	NA	NA
1981	24,212 19,829	224 207	19,545 18,812	1,515	3,486	54,603 54,521	1,227 721	9,646 9,958	90,022 88 599	4,704 10,104	5,915 9,769	0	0	NA NA
1982 1983	23,088	207 195 206	20,151	2,299 2,313 2,228	2,289 2,060	54,521 53,855	721 1,042	8,239	88,599 87,659 95,081	14,051	9,769 9,952	0	281	NA
1984 1985	23.355	206	21 577	2,228	3 636	57 390	695	9,554 9,785	95,081	12,501 9,672	10 181	0	592 686	NA NA
1985	25,167 25,272	190 188	22,594 22,631	2,281 2,678	4,862 5,925	58,047 60,296	539 581	9,785 8,957	98,109 101,068 99,427	9,672 -105	6,539 5,326	0	857	NA NA
1987	24.750	201	23.368	2,613 3,108	5 686	57 490	320	9 951	99,427	-108	7,566 4,591	0	1,277	NA
1988 1989	25,219 23,561	214 221	23,966 24,047	3,108 3,476	4,231 4,356	59,302 60,057	445 460	10,090	101,142	3,940 15,603	4,591 11,853	0	1,410 1,079	NA NA
1990 1991	23,561 24,878	220 227	24,502 22,457	2,906 3,208	4,181 3,413	58,001	307 404	11,332 11,028	103,728 100,925 96,222	14,003 16,587	10,015 10,873	Ö	583 426	NA
1991	23.107	227 242	22,457	3,208	3,413 4,479	56,162	404 392	10.579	96,222	16,587	10,873	0	426 516	NA NA
1992 1993	24,106 27,854	254	23,531 23,431 23,355	4,787 3,566	6,569	58,587 61,213	521 454	11,432 10,451	103,209 105,751 109,488 113,787 116,725	15,654 3,305	10,011 8,954 12,028	0	593	NA
1994	25,440 27,399	246	23,355	3,482 3,416	7,762 8,096	62.897	454	11.538	109,488	11 932	12,028	0	841	NA
1995 1996	27,399 26,744	257 280	25,839 26,831	4.303	8,096 9,317	64,822 64,868	362 210	11,253 11,196	116,787	15,708 22,924	9,629 11,467	0	358 7	NA NA
1997 1998	28,207	283 279	26,946 29,043	4,028 3,264	9 437	66,148 67,522	156 157	10,632 13,049	117,347 122,898	24,648 28,388	11,038 10,806	Ō	7	NA
1998 1999	26,786 26,613	279 279	29,043 26,610	3,264 4,709	9,864 11,816	67,522 69,769	157 50	13,049 13,796	122,898 126,750	28,388 27,227	7 802	0	8 0	NA NA
2000	28,862	271	28,047 28,590	5,514	12,857 12,561	68,862	50 66	13.028	128,373 130,207	25,825	6,396 6,947 7,974 12,004	Ő	0	NA
2001	28,202 28,034	256	28,590	4.469	12,561 13,442	68.392	150	16.044	130,207	28,576 27,574	6,947	0	0	7
2002 2003	26.677	256 257	29,731 33,307	5,837 4,278	13.376	71,963 72,552	135 255	14,824 14,783	135,933 138,550	24 153	12,004	4	0	9
2004	28,135 29,301	231 230 222	33,312 34,810	4,614 4,557 4,687	13,623 13,915	72,968 74,371 74,910	342 360	15,728 17,506 18,553	140,586 145,520 146,689	28,612 27,803 24,679	10,408	4	0	17
2005 2006	29,301 30,275	230	34,810 34,144	4,557 4,687	13,915 14,207	74,371 74,910	189	17,506 18,553	145,520 146,689	27,803 24,679	9,310 7,749	3 55	3,424 3,615	58 166
2007	30,412	221 230	35,315	4,069 3,381 3,317	13.811	76,076 73,658	175 205	16,406	145,852 136,685	28,700 27,030	12,004 10,408 9,310 7,749 4,940 5,646 10,212 8,138 9,576	50	4,623 6,307	10 9 17 58 166 225 193 205 166 564
2008 2009	29,663 22,077	230 217	30,965	3,381	12,669 11,179	73,658 75,084	205 40	15,806 10,375	128 070	27,030 26,962	5,646	50 50 52 41	6,307 7,618	193
2010	23,366	257	27,184 29,352 29,720	3,679	12,465	75,984 76,566	6	10,375 10,436	132,503 131,276 126,586 129,046	27,739	8,138		6.894	166
2011	22,616	264	29,720	3,199	11.998	75.478	25 67 64 41	10,856	131,276	26,919	9,576	53	7,120	564
2012 2013	19,982 19,235	277 279	28,152 27,852	2,361 2,567	11,274 11,664	74,601 75,545	64	10,130 11,354	120,586	25,102 28,494	12.443	47 47	7,475 7,781	525 827
2014	20,274 17,107	306	29,724 29,711	2,892 2,625 2,504	11,775 12,366 13,088	76,299 78,431 81,603	41	11,334 11,398 11,629 R 11,982 R 9,195 R 8,887	129,040 132,128 134,798 R 138,158 R 136,874 R 137,698 R 140,289	27,670	8,296 12,443 8,901 9,581 6,774	51	7,716 7,397 7,721	801
2015 2016	17,107 17,776	313 327	29,711 28,959	2,625 2,504	12,366 13,088	/8,431 81 603	36 21 21 42 72	11,629 R 11 982	134,/98 R 138 158	24,960 29,578	9,581 6,774	46 38	7,397 7,721	709 1,023
2017	16.035	322	29.544	2.414	13.670	82.030	21	R 9,195	R 136,874	31.818	8,691 10,293	43	7.876	883
2018 2019	11,771 10,592	392 408	31,731 32,267	2,806 3,019	13,688 14,613	80,544 81,424	42	H 8,887 R 8,892	H 137,698	36,176 35,720	10,293	41 38	7,634 7,872	883 842 R 682
2020 2021	7,981 10,091	387 401	29 716	2,920 2,937	13.718	74,322 79,832	72 79 47	R 8,635 R 9,285	R 129,390 R 139,654	36,688 35,330	10,130 13,452 10,871	39 28	7,420 8,024	840 R 741
2021	10,091	401	R 30,858	2,937	16,695	79,832	47	R 9,285	R 139,654	35,330	10,871	28	8,024	R 741
2022	9,436	428	31,276	3,102	15,066	80,360	48	9,120	138,972	35,635	9,198	15	8,081	750

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Tennessee (trillion Btu)

					Fossi	fuels						Fossil fuels	
						Petroleum						(as commingled)	I
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	374.5	151.7	30.8	5.0	3.1	143.2	1.2	44.9	228.2	754.5	151.7	30.8	143.2
1960 1965 1970 1971	374.5 338.9	151.7 211.1	30.8 42.5 63.8 67.4	5.0 7.3 12.2 12.2	6.5	143.2 170.6	1.2 1.8	44.9 62.6	228.2 291.3 389.2 402.9	754.5 841.3	151.7 211.1	30.8 42.5 63.8 67.4	143.2 170.6
1970	403.7 370.0	261.8 270.8	63.8	12.2	18.8	219.9	3.8 2.3	70.8 68.4	389.2	1,054.8	261.8 270.8	63.8	219.9 233.8
1971	370.0	270.8	67.4	12.2	18.8	219.9 233.8 253.9 275.2 271.2	2.3	68.4	402.9 444.5	1,054.8 1,043.7 1,172.2 1,319.0	270.8	67.4	233.8
1972 1973 1974	444.3	283.4	83.5 92.1 94.4	13.4 14.6 13.2	19.4	253.9	3.3 4.1 5.5	71.0 78.5	444.5 485.0	1,1/2.2	283.4 300.1 265.4	83.5 92.1 94.4	253.9 275.2 271.2
1974	532.9 470.3	300.1 265.4	94.1	13.2	21.4 21.6	271.2	5.5	78.5 64.5	485.9 470.4	1 206 1	265.4	94.1	271.2
1975 1976 1977	471.9	224.1	101.8 128.2 140.4 159.6 140.7	14.6 14.3 13.4	22.2	282.3	4.5	67.4	492.8 551.6 582.7 610.1 566.8	1,188.8 1,331.6 1,344.8	224.1 218.5 208.4 189.2 233.9	101.8	282.3 295.5 302.9 315.5 300.2
1976	471.9 561.5 553.7	224.1 218.5	128.2	14.3	22.2 23.2	282.3 295.5 302.9 315.5 300.2 288.6 286.8 286.4 282.9 301.5 304.9 316.7 302.0 311.5 315.5 304.7 295.0	4.5 18.6	67.4 71.8	551.6	1,331.6	218.5	101.8 128.2	295.5
1977	553.7	208 4	140.4	13.4	24.7	302.9	21.2	80.0	582.7	1,344.8	208.4	140.4 159.6 140.7	302.9
1978 1979	564.7 542.3	189.2 233.9	159.6	13.8 11.2	26.4 27.7	315.5	14.4 15.4	80.5 71.7	610.1	1,364.0 1,343.0	189.2	159.6	315.5
1979	542.3 576.0	233.9	140.7	11.2	27.7	300.2	15.4	71.7 57.4	500.8 501.0	1,343.0	233.9	140.7	300.2 288.6
1980 1981	576.9 565.9	233.3 227.1	111.7 113.8 109.6 117.4 125.7	10.4 5.6 8.5 8.6 8.3 8.5	23.4 19.7	286.8	9.4 7.7	58.8	501.0 492.5	1,311.2 1,285.5	233.3 227.1	111.7 113.8	288.6 286.8
1982	470.7	212.0	109.6	8.5	12.9	286.4	4.5	61.8	483.7	1.166.4	212.1	109.6	286.4
1982 1983	470.7 547.1	212.0 199.0	117.4	8.6	12.9 11.6	282.9	4.5 6.6	61.8 50.7	483.7 477.7	1,166.4 1,223.9	212.1 199.1	109.6 117.4	286.4 282.9 301.5 304.9 316.7 302.0 311.5 315.5 295.0 304.7 295.0 307.8
1984	555.3	211.3 196.7 194.0	125.7	8.3	20.5 27.5 33.5	301.5	4 4	59.1 60.9 56.0	519.4 536.8 551.7 544.1	1,286.0 1,333.2 1,351.5	211.3 196.7 194.0 207.0 220.9	125.7 131.6 131.8 136.1 139.6	301.5
1985	599.7 605.7	196.7	131.6	8.5	27.5	304.9	3.4 3.7	60.9	536.8	1,333.2	196.7	131.6	304.9
1985 1986 1987 1988	596.5	194.0	131.8	10.0 9.8	33.5 32.1	316.7	3.7	56.0 62.1	551.7 544.1	1,351.5	194.0	131.8	316.7
1988	610.6	207.0 220.8	130.1	11.6	23.9	302.0	2.0	62.5	544.1 551.0	1,331.5 1,347.6 1,383.3 1,362.5 1,381.3 1,326.1 1,401.0 1,521.6	207.0	130.1	302.0
1989	566.9	228.5	140.1	13 1	24.6	315.5	2.9	71 0	567.1	1,362.5	228.6	140.1	315.5
1989 1990 1991	566.9 600.5	228.5 227.5	142.7	10.9	23.6	304.7	1.9	69.4	553.2	1,381.3	227.5	142.7	304.7
1991	565.4	234.6 249.2 263.1	130.8	12.0	23.6 19.3 25.3 37.2	295.0	2.5	69.4 66.5 71.3 65.2	551.9 567.1 553.2 526.1	1,326.1	228.6 227.5 234.6 249.2 263.2	140.1 142.7 130.8	295.0
1992 1993	590.3 685.7	249.2	137.1	17.5	25.3	307.8	2.5	71.3	561.4 572.8	1,401.0	249.2	137.1 136.5	307.8
1993	685.7 622.7	263.1	136.5	13.4	37.2	317.3	3.3	55.2	5/2.8	1,521.6	263.2	136.5	319.4
1994 1995 1996	669.0	254.0 264.9 289.3	150.9	13.1 12.8	44.0 45.9	323.0 336.1	2.0 2.8 2.9 1.9 2.5 2.5 3.3 2.9 2.3	72.0 70.3 69.9	592.9 617.8 634.5	1,469.6 1,551.7	254.1 264.9 289.4	135.9 150.4 156.2	327.9 337.3
1996	650.8	289.3	156.2	16.2	52.8	338.0	1.3	69.9	634.5	1.574.5	289.4	156.2	338.0
1997 1998	680.6	291.8	131.6 131.8 136.1 139.6 140.1 142.7 130.8 137.1 136.5 135.9 150.4 156.2 156.8 169.0 154.8 163.2 166.4 173.0 193.8 202.5	15.1 12.4	53.5	344.3	1.0	66.3	637.0 671.3	1,609.5	291.8 287.4	156.8 169.0	327.9 337.3 338.0 344.3 351.3
1998	651.8	287.4	169.0	12.4	55.9	351.3	1.0	81.7	671.3	1 610 5	287.4	169.0	351.3
1999	648.3 705.1	286.4 280.7	154.8	17.7	67.0	362.9	0.3 0.4	86.2 81.7	688.9 697.0	1,623.6 1,682.7 1,663.2	286.4 280.7	154.8	362.9
2000 2001	705.1 687.4	280.7	163.2	20.6	72.9 71.2	358.1	0.4 0.9	81.7	697.0 710.4	1,682.7	280.7	163.2 166.4	358.1
2002	655.9	265.5 263.7	100.4 173.0	16.6 21.6 16.1	71.2 76.2	333.7 374.1	0.9	99.5 91.7 91.6	710.4 737.6	1,657.2	265.5 263.7	173.0	362.9 358.1 355.7 374.1 377.1
2003	621 4	265.8	193.8	16.1	75.8	377.1	16	91.6	756.0	1 643 2	265.8	193 8	377.1
2004 2005	648.0 657.7	238.8 238.4	193.8	17.2 17.0	77.2 78.9	379.1	2.1 2.3	95.8 107.8	765.4	1,652.2 1,678.8	238.8 238.4	193.8 202.5	379.1
2005	657.7	238.4	202.5	17.0	78.9	374.3	2.3	107.8	756.0 765.4 782.7	1,678.8	238.4	202.5	379.1 386.1 388.4 391.2 376.1
2006	677.2	230.0 229.5 238.4	198.1	17.4	80.6 78.3	375.9	1.2 1.1	112.8 99.7 95.7	785.9 773.6 714.8	1,693.1 1,675.9 1,597.0	230.0 229.5 238.4	198.1 204.3 179.0	388.4
2006 2007 2008	672.8 643.8	229.5	204.3	15.1 12.7	78.3 71.8	3/5.1	1.1 1.3	99.7	//3.b	1,6/5.9	229.5	204.3	391.2 276 1
2000	477.7	230.4 223.0	179.0	12.7	63.4	360.4	0.3	93.7 63.4	7 14.0 655 5	1,397.0	230.4	179.0	370.1
2009 2010	477.7 515.5	223.0 263.4	168.4	12.6 14.1	63.4 70.7	364.1	(s)	63.4 64.0	655.5 681.2	1,356.2 1,460.1	223.0 263.4	157.0 169.5	388.0
2011	481.1	267.9 281.0	168.6	12.3 9.1	68.0 63.9	357.5	(s) 0.2	66.8 62.2	673.4	1,422.4 1,350.8	267.9 281.0	171.5 162.4	386.8 388.0 382.1 377.6
2011 2012	423.1	281.0	159.5	9.1	63.9	351.7	0.4	62.2	646.7	1,350.8	281.0	162.4	377.6
2013	399.8	284.7 313.9	155.2	9.9 11.1	66.1	355.3	0.4	69.0	655.9	1,340.4	284.7	160.5	382.3
2014 2015	427.5 370.6	313.9 322.5	198.1 204.3 179.0 155.5 168.4 168.6 159.5 155.2 166.1 165.6 159.5 163.2 176.1	11.1 10.1	66.8 70.1	325.0 336.1 338.0 344.3 351.3 362.9 358.1 355.7 374.1 377.1 374.3 375.9 375.1 354.2 360.4 364.1 357.5 351.7 355.3 359.2	0.3 0.2	69.2 70.5	6/2.6	1,340.4 1,414.0 1,380.6	284.7 313.9 322.5	171.3 171.2	382.3 386.0 396.6
2015	370.0	322.5 336.3	165.6 150.5	10.1	70.1 74.2	370.9 385.7	0.2	70.5 73.5	702 7	1,38U.0 1 112 2	322.5	1/1.2	390.b 412.5
2016 2017	379.8 334.6	336.3 331.6	163.2	9.6 9.3	74.2 77.5	385.7 387.1	0.1 0.1	73.5 57.3	R 694.6	1,418.8 R 1,360.8	331.6	166.7 170.1	414.5
2018	251.8 216.9	404.3	176.1	10.8 11.6	77.6 82.9	380.5	0.3	_ 55.4	R 700.7	_ 1,356.8	404.3	182.7	407.1
2018 2019	216.9	404.3 420.3	179.4	11.6	82.9	380.5 383.9 349.7	0.3 0.5 0.5	R 55.4	R 713.7	R 1,350.9	336.3 331.6 404.3 420.3 398.6	182.7 185.8	411.4
2020	176.1	398.6	164 7	11.2	77.8	349.7	0.5	55.4 R 55.4 R 53.8 R 57.7	H 657.7	1,356.8 R 1,350.9 R 1,232.4 R 1,351.2	398.6	171.0	375.5
2021 2022	225.8 204.7	413.6 440.0	R 175.0 177.4	11.3 11.9	94.7 85.4	375.2 377.6	0.3 0.3	<sup>n</sup> 57.7 56.5	681.2 673.4 646.7 655.9 672.6 687.5 702.7 R 694.6 R 700.7 R 713.7 R 657.7 R 711.9	<sup>n</sup> 1,351.2 1,351.6	413.6 440.0	171.0 R 177.9 180.3	396.6 412.5 414.5 407.1 411.4 375.5 403.1 405.7
2022	204.7	440.0	1//.4	11.9	05.4	3/1.6	0.3	50.5	700.9	1,351.6	440.0	100.3	405.7

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Tennessee (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0 0.0	R 29.6 R 29.9	45.4 46.5	NA NA	NA NA	NA NA	NA NA	45.4 46.5	0.0 0.0	NA NA	NA NA	R 75.0 R 76.4	R 72.5 R 155 4	0.0 0.0	R 901.9 R 1,073.1
1970	0.0	R 27.5 R 32.1	53.8 54.4	NA	NA	NA	NA	53.8	0.0	NA	NA	R 81.3 R 86.5	R 155.4 R 163.7 174.3 R 139.6 R 127.6 R 197.0 R 247.4 R 215.6 R 270.5 R 226.1 R 265.9 R 239.9 R 198.4	0.0	R 1,299.7 R 1,304.6
1971 1972	0.0 0.0	H 32.1 R 38.0	54.4 57.6	NA NA	NA NA	NA NA	NA NA	54.4 57.6	0.0 0.0	NA NA	NA NA	H 86.5	174.3 B 120.6	0.0 0.0	H 1,304.6 H 1,407.4
1973 1974	0.0	R 20.1	58.9 57.5	NA	NA	NA	NA	58.9 57.5	0.0	NA	NA	R 95.5 R 98.0 R 97.7	R 127.6	0.0	R 1 5// 6
1974	0.0	R 40.1 R 40.3	57.5	NA	NA	NA	NA	57.5	0.0	NA	NA	R 97.7 R 94.7	R 197.0	0.0	H 1 500 8
1975 1976	0.0 0.0	H 40.3	54.4 61.8	NA NA	NA NA	NA NA	NA NA	54.4 61.8	0.0 0.0	NA NA	NA NA	R q/ 1	R 215.6	0.0 0.0	R 1,531.0 R 1,641.3
1977	0.0	R 32.3 R 35.5	67.7	NA	NA	NA	NA	67.7	0.0	NA	NA	H 103 2	R 270.5	0.0	R 1 718 5
1978 1979	0.0 0.0	R 30.0 R 42.0	72.0	NA NA	NA NA	NA NA	NA NA	72.0 79.8	0.0 0.0	NA NA	NA NA	H 102.0	H 226.1	0.0 0.0	R 1,692.2
1979	5.7	R 29.9	79.8 69.3	NA NA	NA NA	NA NA	NA NA	69.3	0.0	NA NA	NA NA	R 102.0 R 121.8 R 99.2 R 95.0	R 239.9	0.0	R 1,730.7 R 1,656.0
1981	51.9	R 29.9 R 20.2	74.8	0.0	NA	NA	0.0	69.3 74.8	0.0	NA NA	NA	R 95.0	R 198.4	0.0	H 1.630.8
1982	111.9 153.2	R 33.3 R 34.0	81.8 82.1	0.0 1.0	NA NA	NA NA	0.2 1.7	82.0 84.8	0.0 0.0	NA NA	NA 0.0	R 115.4 R 118.7	R 148.3 R 86.7 R 111.4 R 94.4	0.0 0.0	R 1,541.9
1983 1984	153.2 135.6	R 34 7	82.1 92.4	2.1	NA	NA	1.7 2.3	96.8	0.0	0.0	0.0	R 118.7 R 131.5	R_111.4	0.0	R 1,582.5 R 1,664.4
1985	102.7	Н 22 3	93.2	2.4	NA	NA	2.5 2.6	98.1	0.0	0.0	0.0	H 120.4	R 94.4	0.0	n 1 650 7
1986 1987	-1.1 -1.1	R 18.2 R 25.8	95.3 90.4	3.0 4.4	NA NA	NA NA	2.6 2.8	100.8 97.7	0.0 0.0	0.0 0.0	0.0 0.0	R 119.0 R 123.5	R 190.8	0.0 0.0	R 1,639.3 R 1,660.8
1988	41.8	H 15 7	95.3	4.9	NA	NA	2.8	103.0	0.0	0.0	0.0	R 123.5 R 118.7	R 187.7	0.0	H 1 731 4
1989 1990	165.1 148.2	R 40.4 R 34.2	75.9 56.5	3.7 2.0	NA NA	NA NA	2.7	82.3 60.7	(s) (s) (s)	0.1	0.0 0.0	H 122 8	H 121.9	0.0 0.0	R 1,772.4
1990	173.9	H 37 1	60.9	2.0 1.5	NA NA	NA NA	2.2	65.0	(S)	0.1 0.1	0.0	R 95.0 R 102.2	R 120.0	0.0	R 1,730.5 R 1,722.2
1992	163.9	R 34 2	61.2	1.8	NA	NA	2.7 2.2 2.6 2.3 2.5 2.4	65.3	(s)	0.1	0.0	H qq 6	R 169.9 R 190.8 R 187.7 R 121.9 R 106.1 R 120.0 R 111.4	0.0	H 1 775 8
1993 1994	34.7 124.7	R 30.6 R 41.0	55.1 56.6	2.1 2.9	NA NA	NA NA	2.5	59.7 61.9	(s) (s)	0.1 0.1	0.0 0.0	R 90.3 R 103.0 R 96.9	R 169.2 R 148.1 R 69.1 R 63.1 R 6.0	0.0 0.0	R 1,815.8 R 1,845.4
1995	165.0	R 32.9	60.4	1.2	NA	NA	2.3	64.0	(s)	0.1	0.0	R 96.9	R 69.1	0.0	H 1.882.8
1996	240.8	R 39.1 R 37.7	56.0	(s) (s)	NA	NA	1.0	56.9	(s)	0.1	0.0	R 96.2 R 86.8	R <sub>63.1</sub>	0.0	H 1 974 6
1997 1998	258.7 297.8	R 36 9	47.3 46.5	(s) (s)	NA NA	NA NA	1.7 2.0	49.0 48.6	(s) (s)	0.1 0.1	0.0 0.0	R 85.5	R 49.2	0.0 0.0	R 1,960.9 R 2,043.1
1999	284.5	R 26.6 R 21.8	50.0	ÓÓ	NA	NA	1.9 2.3	52.0 55.2	(s)	0.1	0.0	R 78.7 P 77.1	R 116.9 R 121.6	0.0	R 2,103.8 R 2,150.8
2000	269.3 298.4	H 21.8 R 23.7	52.8 64.4	0.0 0.0	NA (a)	NA NA	2.3 2.6	55.2	(s) (s) 0.1	0.1	0.0 0.0	<sup>H</sup> 77.1 <sup>R</sup> 90.8	H 121.6	0.0 0.0	H 2,150.8 R 2,158.9
2002	287.9	R 27 2	63.5	0.0	(s) 0.1	NA NA	3.6	67.0 67.2	0.1	(s) (s)	0.0 (s)	R 94.5	R 134.8	0.0	H 2.174.4
2003 2004	251.7	R 41 0	58.3 71.6	0.0	(s) 0.1	NA	4.2 3.8	62.6 75.5	0.1	(s) (s) (s)	(s) (s)	R 94.5 R 103.6 R 111.1	R 166.6	(s)	R 2 165 1
2004 2005	298.4 290.2	R 35.5 R 31.8	/1.6 65.0	0.0 11.9	0.1	NA NA	3.8 3.6	/5.5 80.9	0.1 0.1	(s) (s)	(s) (s)	P 111.1 R 112.8	<sup>n</sup> 146.4 R 101.2	(s) (s) 0.0	R 2,208.1
2006	257.5	H 26 /	57.2	12.5	0.3 0.9	NA	3.6 3.8	80.9 74.2	0.1	(s) (s)	R 0.2	R 100.9 R 94.7	R 222.1	0.0	R 2,273.7
2007 2008	301.0	R 16.9 R 19.3	56.4 66.2	16.0	1.2 1.0	NA	3.8 4.6	77.5 93.7	0.1	(s)	R 0.2 R 0.2 R 0.2	<sup>H</sup> 94.7 <sup>R</sup> 113.4	R 106.5 R 134.8 R 166.6 R 146.4 R 191.2 R 222.1 R 231.7 R 242.6	0.0	R 2,272.9 R 2,273.7 R 2,303.3 R 2,235.5
2008	282.5 282.0	H 19.3	55.2	21.9 26.4	1.0	NA NA	4.6 9.4	93.7 92.0	0.1 0.2	(s)	R 0.2	R 127 3	R 242.6	0.0 0.0	ロクロロク
2009 2010	289.9	R 34.8 R 27.8	55.2 62.7	26.4 23.9	0.9	NA	9.4 9.4	92.0 96.9	0.2 0.2	_ (s)	R 0.1	R 127.3 R 125.0	R 309.2	0.0	H 2 18/13
2011 2012	281.7 263.0	R 32.7 R 28.3	59.8 63.5	24.7 25.9	3.0 2.8	0.0 0.0	10.0 9.0	97.5 101.3	0.2 0.2	(s) (s) (s) R (s) R 0.1	R 0.2 R 0.1 R 0.2 R 0.2 R 0.2 R 0.2	R 130.6 R 130.0	H 280.7	0.0 0.0	R 2,115.4 R 2,010.0
2013	297.7	R 42.5	65.5	27.0	2.6 4.4	0.0	9.0	106.3	0.2	n 0 3	R 0.2	H 149.4	R 253.3	0.0	R 2.040.8
2014	289.4	R 30 4	68.1	26.8	4.3	0.0	9.4	108.6	0.2 0.2	Rna	R 0.2	R 139.7	R 283.2	0.0	H 2,126.3
2015 2016	261.0 309.4	R 32.7 R 23.1	67.0 64.0	25.7 26.8	3.8 5.5	0.0 0.0	9.3 9.9	105.7 106.2	0.2	R 0.5 R 0.6	n 0.2 R 0.1	R 139.3 R 130.3	R 244.7 R 309.2 R 280.7 R 266.1 R 253.3 R 283.2 R 315.6 R 280.0 R 241.4 R 267.4 R 233.3 R 186.8	0.0 0.0	R 2,096.5 R 2,138.4
2017	332.8	R 29.7	58.4	27.4	4.7	0.0	9.9	100.4	0.2 0.2 0.2	R 0.6	R 0.1 R 0.1 R 0.1 R 0.1 R 0.1 R 0.1	H 131.1	R 241.4	0.1	<sup>n</sup> 2.066.1
2018	378.2	R 35.1 R 34.6	61.6	26.6	4.5	0.0	9.8	102.5	0.2	R 0.9	R 0.1	H 138 9	R 267.4	0.0	H 2 141 3
2019 2020	373.0 383.2	R 45.9	56.5 R 49.3	27.4 25.8	3.7 4.5	0.0 0.0	9.5 9.0	97.1 R 88.6	0.2 0.2	R 1.5 R 1.4	1 U.1 R 0 1	R 133.5 R 136.3	R 186 8	0.0 0.0	R 2,090.7 R 1,938.7
2021 2022	R 368.5	R 37.1	H 55 9	27.9	4.0	0.0	9.3	R 97.1	0.2	R 1.5 2.6	H 0.1	H 136.0	R 244.1	0.0	H 2,099.7
2022	371.6	31.4	38.2	28.1	4.0	0.0	8.6	78.9	0.2	2.6	0.1	113.1	265.5	0.0	2,101.8

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Tennessee

Year 1960 1970 1980	Coal Thousand short tons	Natural gas <sup>a</sup> Billion cubic feet	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor	Residual			Hydro-			1 I					
1960 1970 1980	Thousand short tons				iuei -	gasoline e	fuel oil	Other <sup>f</sup>	Total	electric power <sup>g,h</sup>					Electricity			
1970 1980	2 201				1	Thousand barrels	<b>S</b>			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	Electrical system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1970 1980		139	5,290	1,311	570	27,268	188	7,623	42,250	0					38,994			
	2,999	239	10,952	3,182	3,335	41,869	597	11,692	71,627	ő					52,070			
	3,008	229	18,770	2,787	4,154	54,948	1,499	9,367	91,524	0					73,391			
1990	4,064	219	24,270	2,906	4,181	58,001	307	11,028	100,693	0					77,145			
2000 2005	3,461 3,182	265 225	26,988 34,410	5,514 4,557	12,857 13.915	68,862 74,371	66 360	13,028 17,506	127,314 145,120	520 772					95,728 103.905			
2005	3,059	215	33,884	4,557	14,207	74,910	189	18,553	146,429	581					103,932			
2007	3,064	214	35,037	4,069	13,811	76,076	175	16,406	145,574	0					106,717			
2008	3,031	226	30,576	3,381	12,669	73,658	205	15,806	136,295	0					104,170			
2009	2,615	213	26,836	3,317	11,179	75,984	40	10,375	127,731	0					94,910			
2010	2,744	235	28,954	3,679	12,465	76,566	6	10,436	132,105	0					103,522			
2011	2,648	238	29,348	3,199	11,998	75,478	25	10,856	130,904	0					100,733			
2012 2013	2,516 2,549	214 243	27,857 27,601	2,361 2,567	11,274 11,664	74,601 75,545	67 64	10,130 11,354	126,291 128,795	623 1,074					96,381 96,944			
2013	2,370	261	29,368	2,892	11,775	76,299	41	11,398	131,773	1,074					100,219			
2015	2,141	244	29,446	2,625	12,366	78,431	36	11,629	134,533	0					99,632			
2016	1,913	239	28,723	2,504	13,088	81,603	21	R 11,982	R 137,921	0					100,758			
2017	1,490	246	29,300	2,414	13,670	82,030	21	R 9,195	R 136,630	0					97,240			
2018	1,412	289	31,506	2,806	13,688	80,544	42	R 8,887	R 137,473	0					102,911			
2019 2020	1,230 1,112	289 282	31,997 29,506	3,019 2,920	14,613 13,718	81,424 74,322	72 79	R 8,892 R 8,635	R 140,019 R 129,180	0					99,829 95,004			
2020	1,175	303	R 30,604	2,920	16,695	79,832	47	R 9,285	R 139,400	0					99,621			
2022	1,065	304	30,914	3,102	15,066	80,360	48	9,120	138,610	ő					102,112			
									Trillion	Btu								
1960	82.7	144.3	30.8	5.0	3.1	143.2	1.2	44.9	228.2	0.0	45.4	NA	NA	NA	133.0	633.6	R 268.3	R 901.9
1970	71.0	244.2	63.8	12.2	18.8	219.9	3.8	70.8	389.2	0.0	53.8			NA	177.7	935.8	R 363.9	R 1,299.7
1980	72.8	232.2	109.3	10.4	23.4	288.6	9.4	57.4	498.6	0.0	69.3			NA	250.4	1,123.4	R 532.7	R 1,656.0
1990	102.2	226.9	141.4	10.9	23.6	304.7	1.9	69.4	551.9	0.0 R 1.8	56.5			0.1	263.2	1,205.0	R 525.5	R 1,730.5
2000 2005	90.3 82.4	275.3 232.6	157.0 200.2	20.6 17.0	72.9 78.9	358.1 386.1	0.4 2.3	81.7 107.8	690.8 792.3	11.8 R 2.6	52.4 64.7			0.1 (s)	326.6 354.5	R 1,439.6 R 1,533.2	R 711.1 R 739.7	R 2,150.8 R 2,272.9
2005	79.2	223.2	196.6	17.0	80.6	388.4	1.2	112.8	796.9	R 2.0	56.9			(s)	354.6	R 1,517.4	R 756.3	R 2,273.7
2007	79.4	222.0	202.7	15.1	78.3	391.2	1.1	99.7	788.0	0.0	56.2			(s)	364.1	1,514.9	R 788.3	R 2,303.3
2008	79.0	233.9	176.7	12.7	71.8	376.1	1.3	95.7	734.4	0.0	65.9			(s)	355.4	1,474.4	R 761.1	R 2,235.5
2009	68.4	219.2	155.0	12.6	63.4	386.8	0.3	63.4	681.4	0.0	54.8			(s)	323.8	R 1,357.3	R 653.3	R 2,010.7
2010	71.7	240.8	167.2	14.1	70.7	388.0	(s)	64.0	704.0	0.0	62.4			(s)	353.2	1,441.7	R 742.8	R 2,184.5
2011	68.7	241.5	169.3	12.3	68.0	382.1	0.2	66.8	698.8	0.0 R 2.1	59.4			R (s)	343.7	1,422.3	R 692.9 R 650.2	R 2,115.2 R 2,010.1
2012 2013	65.5 66.2	217.4 247.4	160.7 159.1	9.1 9.9	63.9 66.1	377.6 382.3	0.4 0.4	62.2 69.0	673.9 686.7	R 3.7	62.9 64.7			R 0.2	328.9 330.8	R 1,359.9 R 1,409.2	R 632.4	R 2,010.1
2013	62.0	267.9	169.2	11.1	66.8	386.0	0.4	69.2	702.6	0.0	67.2			R 0.2	341.9	R 1,451.5	R 675.8	R 2,127.3
2015	56.1	252.3	169.7	10.1	70.1	396.6	0.2	70.5	717.2	0.0	66.1	9.3		R <sub>0.2</sub>	339.9	R 1,441.3	R 656.9	R 2,098.3
2016	50.5	248.1	165.4	9.6	74.2	412.5	0.1	73.5	R 735.4	0.0	63.1	9.9	0.2	R <sub>0.3</sub>	343.8	R 1,451.3	R 688.8	R 2,140.1
2017	39.3	255.8	168.7	9.3	77.5	414.5	0.1	57.3	727.4	0.0	57.5			R 0.3	331.8	R 1,422.3	R 645.9	R 2,068.2
2018	36.8	301.2	181.4	10.8	77.6	407.1	0.3	55.4 B 55.4	732.6	0.0	60.7			R 0.4	351.1	R 1,492.8	R 650.6	R 2,143.4
2019	32.3	301.6	184.3	11.6	82.9	411.4	0.5	R 55.4 R 53.8	R 746.0 R 688.6	0.0	55.6 R 48.4	9.5		R 0.4 R 0.4		R 1,486.2 R 1.393.5	R 607.2 R 547.1	R 2,093.4 R 1,940.6
2020 2021	29.1 30.6	293.6 315.0	169.8 R 176.4	11.2 11.3	77.8 94.7	375.5 403.1	0.5 0.3	R 57.7	R 743.5	0.0	R 55.1	9.0 9.3		R 0.4	324.2 339.9	R 1,493.9	R 607.0	R 2,100.9
2021	27.5	316.8	178.2	11.9	85.4	405.7	0.3	56.5	738.1	0.0	37.4			0.4	348.4	1,477.3	625.7	2,100.9
							3.0				37.4			3.0		.,	323.7	2,.56.6

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Tennessee

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>©</sup>	Kerosene	Total				Electricity <sup>9</sup>	-	Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total e,h
1960	563	34	80	813	797	1,691				8,683			
1965 1970	378 304	37 47	100	1,072	881 2,027	2,052 4,382				12,134 17,942			
1970	304	47	100 169	2,185	2,027	4,382				17,942			
1975 1980 1985	98	44	237 308 269	2,611	1,316 549 737	4,163 2,273 2,147				23,034 26,207 25,546			
1980	49 37	45 39	308	1,416 1,140	549	2,273				26,207			
1985	44	46	209 275	1,140	324	2,147				20,040			
1995	19	60	275 260	1,620 2,008	324 372	2,218 2,641 3,805				28,757 30,967			
2000	12	68	174	3 252	378	3.805				36 622			
2005 2006	3	66 61	102 107	2,525 2,264	284 283	2,911 2,655 2,622				41,132 40,816			
2006	4	61	107	2,264	283	2,655				40,816			
2007	7	61	127	2,291	204	2,622				42,880			
2008	0	69 66 74	160 165 153	2,035 2,548 2,817	70	2,264 2,815				41,947 40,275			
2009 2010	0	7/	153	2,340 2,817	103 128	3,099				45,191			
2011	0	67	45	1 984	51	2 080				43,068			
2011 2012	ŏ	67 54	45 41	1,984 1,152	51 17	2,080 1,210				43,068 39,754			
2013 2014 2015	0	71	39 39 51	1,400 1,879 1,673	23 39 29	1,462 1,957 1,753				40,906 42,538 41,667			
2014	Ō	78 67	39	1,879	39	1,957				42,538			
2015	0	67	51	1,673	29	1,753				41,667			
2016	0	59	34	1,504	44 30	1,582 1,486				41,774 39,293			
2017 2018	0	59 57 75 69	34 39 34 28 29 49	1,417 1,727	30	1,790				39,∠93 44 382			
2019	0	69	28	1.902	38	1,967				44,382 42,573			
2020	Ŏ	66	29	1,902 1,525	44	1,598				41,085			
2021	0	72	49	1.593	33	1.675				42,840			
2022	0	73	51	1,746	30	1,827				43,604			
							Trillion Btu						
1960	13.9	35.1 38.9 47.6	0.5	3.1	4.5	8.1	25.4	NA	NA	29.6	112.1	R 59.7 R 81.4 R 125.4 R 160.5 R 190.2 R 177.1 R 195.9 R 211.3 R 272.0 R 292.8 R 297.0 R 316.8 R 306.5	R 171.8
1965	9.3	38.9	0.6	4.1	5.0	9.7	19.0	NA	NA	41 4	118.2	R 81.4	R 199.7
1965 1970 1975	9.3 7.2 2.3	47.6	1.0	8.4	11.5 7.5	20.9	16.1	NA	NA	61.2 78.6	153.0	n 125.4	n 278.4
1975 1980	2.3 1.2	45.4 45.6	1.4 1.8	10.0 5.4	7.5	18.9 10.3	16.8 19.4	NA NA	NA NA	78.6 89.4	161.9 166.0	11 160.5 B 100.0	H 322.4
1900	0.9	40.8	1.6	5.4 4.4	3.1 4.2	10.3	34.5	NA NA	NA NA	87.2	173.5	190.2 R 177 1	R 350.2
1985 1990 1995	1.1	48.0	1.6	6.2	1.8	9.7	18.4		0.1	98.1	175.3	R 195.9	R 371 1
1995	0.5	61.9	1.6 1.5	6.2 7.7	2.1	11.3	14.7	(s) (s)	0.1	105.7	194 2	R 211.3	R 405.5
2000	0.3	71.0	1.0	12.5	2.1	15.7	8.0	(s)	0.1	105.7 125.0 140.3 139.3 146.3 143.1 137.4 154.2 146.9 135.6	220.0	R 272.0	R 492.0
2005	0.1	68.6	0.6	9.7	1.6	11.9	11.5	0.1	(s)	140.3	232.5 223.9	R 292.8	R 525.3
2006 2007 2008	0.1	63.4 63.1 71.8	0.6 0.7	8.7	1.6 1.2	10.9	10.2 11.3 12.6	0.1	(s)	139.3	223.9	H 297.0	H 521.0
2007	0.2	63.1	0.7	8.8	1.2	10.7 9.1	11.3	0.1	(s)	146.3	231.6	11 316.8 B 200 5	11 548.4 B 540.0
2008	0.0 0.0	/ 1.8 69.0	0.9 1.0	7.8 9.8	0.4 0.6	9.1	12.6	0.1 0.2	(S) (S)	143.1 127.4	236.8 224.6	R 277 2	R 501 8
2009 2010	0.0	68.0 76.0	0.9	10.8	0.7	11.3 12.4	7.7 8.2	0.2	(s)	154.2	251.1	R 324 3	R 575 4
2011	0.0	68.2	0.3	7.6	0.3	8.2	8.0	0.2	(s)	146.9	231.5	R 296.3	R 527.8
2012	0.0	54.6	0.2	4.4	0.1	8.2 4.8	6.7	0.2	(s)	135.6	231.5 201.9	R 268.2	R 470.1
2013	0.0	72.6	0.3 0.2 0.2	5.4	0.1	5.7	8.0 6.7 8.7	0.2	(s)	139.6	226.8	R 277.2 R 324.3 R 296.3 R 268.2 R 266.9 R 286.8 R 274.7 R 285.6 R 261.0	R 171.8 R 199.7 R 278.4 R 322.4 R 356.6 R 371.1 R 405.5 R 492.0 R 525.3 R 521.0 R 548.4 R 575.4 R 577.4 R 577.4 R 470.1 R 493.7 R 501.4 R 502.7 R 465.5 R 470.4
2014	0.0	80.6	0.2	7.2	0.2	77	8.8	0.2	(s)	145.1	242.4	H 286.8	H 529.3
2015	0.0	69.7	0.3	6.4 5.8	0.2 0.2	6.9	7.7 6.8	0.2	(s) P 0.1	142.2	226.7 B 017.4	R 2/4./	B 501.4
2016 2017	0.0 0.0	61.2 58.9	0.2 0.2	5.8 5.4	0.2 0.2	6.2 5.8	6.8 5.4	0.2 0.2	R 0.1	145.1 142.2 142.5 134.1	226.7 R 217.1 R 204.6	R 285.6	R 465 F
2017	0.0	77.9	0.2	5.4 6.6	0.2	7.0	7.2	0.2	R O 1	154.1	R 243 q	R 280 6	R 524 4
2018 2019	0.0	77.9 72.0	0.2 0.2	7.3	0.2 0.2	7.7	7.5	0.2	R 0.1 R 0.1	145.3	R 243.9 R 232.8	R 258.9	R 491.7
2020 2021	0.0	_ 68.4	0.2 0.3	5.9	0.3	6.3	R 4.6	0.2 0.2	R 0.1 R 0.1	140.2	R 219.8	R 236.6	R 456.4
2021	0.0	68.4 R 74.7 75.8	0.3	5.9 6.1 6.7	0.3 0.2 0.2	6.3 6.6	R 4.6 R 4.5 5.8	0.2	R 0.1	151.4 145.3 140.2 146.2	R 219.8 R 232.3	R 280.6 R 258.9 R 236.6 R 261.0	R 456.4 R 493.3 505.1
2022	0.0	75.8	0.3	6.7	0.2	7.2	5.8	0.2	0.1	148.8	237.9	267.2	505.1

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Tennessee

					Pe	troleum			Unidua	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>	Wood		Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	391 285	24	200	201	157	173 277	(s)	731 963	NA			NA	2,796			
1965	285	28	248	265	173	277	(s) (s)	963	NA			NA	4,274			
1970 1975	239 228	43 42	422 589	539 645	399	392 419	1	1,753	NA NA			NA NA	6,352 7,440			
1975	185	42 44	1.015	350	259 104	419 465	48	1,913 1,982	NA NA			NA NA	7, <del>44</del> 0 14,216			
1985	132	43	3,204	282	167	337	98	4,087	NA			NA	9,856			
1990	174	44	739	400	69 80	464	33	1,704	0			(s)	13,075			
1995	126	51	739	496	80	50	14	1,378	0			(s)	6,234			
2000 2005	100 30	53 54	1,078 780	803 488	105 40	49	0	2,035 1,362	0			(s)	26,814 29,146			
2005	38	52	650	672	28	54 55 55 55	0	1,405	0			(s) 1	29,033			
2007	64	51	952	449	24	55	8	1,489	Ŏ			1	29,985			
2008	92	54	726	544	9	55	4	1,339	0			1	29,418			
2009	91	52	1,215	374	10	55	4	1,657	0			1	28,049			
2010 2011	86 70	56	1,189 1,030	440 675	9	55 55 55	0	1,692 1,767	0			2	29,399 29,025			
2011	63	52 45	1,015	401	3	55 55	0	1,475	0			5 5	28,150			
2013	65	54	671	454	4	57	ž	1,187	ŏ			55	33,575			
2014	60	57	869	427	6	54	0	1,356	0			62	33,497			
2015	6	53	828	391	3	1,340	0	2,562	0			62	34,982			
2016	0	50	786 944	525 507	5	1,349	0	2,665 2,821	0			66	35,439			
2017 2018	0	49 59	942	612	4	1,366 1,391	0	2,821	0			68 70	33,727 36,930			
2019	ő	57	1,012	568	3	1,407	ő	2,990	0			72	36,151			
2020	0	53	760	708	5	1,405	0	2 879	0			67	33,480			
2021	0	59	880	759	3	1,413	0	H 3,055	0			65	34,863			
2022	0	60	905	659	3	1,432	0	2,998	0			54	35,719			
									lion Btu							
1960 1965	9.7	25.1	1.2 1.4	0.8	0.9	0.9 1.5	(s) (s) (s) (s) 0.3	3.7	NA	0.5	NA	NA	9.5	48.5	R 19.2 R 28.7	R 67.8
1965 1970	7.0	29.6 43.7	1.4	1.0	1.0	1.5 2.1	(s)	4.9 8.9	NA NA	0.4	NA NA	NA NA	14.6	56.4 80.2	R 28.7	R 85.1 R 124.6
1975	5.7 5.4	43.7	2.5 3.4	2.1 2.5	2.3 1.5	2.1	(8)	9.6	NA NA	0.3 0.3	NA NA	NA NA	21.7 25.4	80.2 84.4	R 51.8	R 136.3
1980	4.4	44.8	5.9	1.3	0.6	2.4	0.3	10.6	NA	0.5	NA	NA	48.5	108.8	R 103.2	R 211.9
1985 1990	3.2	44.9	18.7	1.1	0.9	1.8	0.6	23.1	NA	0.8 4.9	NA	NA	33.6	105.6	H 68.3	R 174.0
1990	4.3	45.1	4.3	1.5	0.4	2.4	0.2	8.9	0.0	4.9	0.0	(s)	44.6	107.8	R 89.1	R 196.8
1995 2000	3.2	52.8	4.3 6.3	1.9 3.1	0.5 0.6	0.3 0.3	0.1 0.0	7.0 10.2	0.0 0.0	4.7 3.9	0.0 0.0	(s)	21.3 91.5	89.0 163.5	R 42.5 R 199.2	R 131.6 R 362.7
2005	2.6 0.7	55.3 56.2	4.5	1.9	0.6	0.3	0.0	6.9	0.0	1.8	0.0	(s)	91.5 99.4	165.1	R 207.5	R 372.6
2006	0.9	53.5	3.8	2.6	0.2	0.3	0.0	6.8	0.0	1.7	0.0	(s)	99.1	162.0	R 211 2	R 373 3
2007	1.6	53.0 56.1	5.5	1.7	0.1	0.3 0.3	0.1	7.7	0.0	1.8	0.0	(s)	102.3	166.4	R 221.5 R 214.9 R 193.1	R 387 9
2008	2.4	56.1	4.2	2.1	0.1	0.3	(s) (s)	6.6	0.0	1.9	0.0	(s)	100.4	167.4	H 214.9	R 382.3
2009 2010	2.3 2.2	53.3	7.0	1.4	0.1	0.3 0.3	(s) 0.0	8.8	0.0 0.0	1.1	0.0	(s)	95.7	161.3	<sup>n</sup> 193.1 R 211.0	R 354.3
2010	1.8	57.5 52.9	6.9 5.9	1.7 2.6	(s) (s)	0.3	0.0	8.9 8.9	0.0	1.1 1.0	0.0 0.0	(s) (s)	100.3 99.0	170.0 R 163.6	R 100 7	R 381.0 R 363.3
2012	1.6	52.9 45.6	5.9 5.9	2.6 1.5	(S) (S)	0.3	0.0	6.9 7.7	0.0	0.9	0.0	(S) (S)	99.0 96.0	151.9	R 180 a	R 341.8
2013	1.6	54.9	3.9	1.7	(s)	0.3 0.3	(s) 0.0	5.9	0.0	1.0	0.0	Rôź	114.6	R 178 3	R 219.0	R 397 3
2014	1.5	59.1	5.0	1.6	(s)	0.3	0.0	7.0	0.0	1.1	0.0	R 0.2	114.3	H 183 1	R 219.0 R 225.9 R 230.7	R 409.0
2015	0.1	54.9	4.8	1.5	(s)	6.8	0.0	13.1	0.0	1.1	0.0	R 0.2	119.4	R 188.8	n 230.7	R 419.5
2016 2017	0.0 0.0	51.7 51.0	4.5 5.4	2.0 1.9	(s) (s)	6.8 6.9	0.0 0.0	13.4 14.3	0.0 0.0	1.2 1.0	0.0 0.0	R 0.2 R 0.2	120.9 115.1	R 187.5 R 181.6	R 242.3 R 224.0	R 429.7 R 405.6
2017	0.0	61.1	5.4 5.4	2.4	(S) (S)	7.0	0.0	14.8	0.0	1.0	0.0	R 0.2	126.0	n 203.3	H 233 5	R 436.7
2019	0.0	59.3	5.8	2.2	(s)	7.1	0.0	15.1	0.0	1.1	0.0	Rn2	123.3	R 100 1	R 219 9	R 419 0
2020	0.0	54.8	4.4	2.7	(s)	7.1	0.0	14.2	0.0	1.1	0.0	R 0.2	114.2	R 184.5	R 192.8	R 377 3
2021 2022	0.0 0.0	61.0	5.1	2.9	(s)	7.1	0.0	15.1	0.0	1.0	0.0	R 0.2	119.0	H 196.3	R 212.4 218.9	R 408.7
		63.0	5.2	2.5	(s)	7.2	0.0	15.0	0.0	1.1	0.0	0.2	121.9	201.1	218 4	420.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Tennessee

					Petro	leum			Hydro-	Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	energy losses	Total f,k
1960	2,307	76	2,096	275	627 484	180	5,124	8,301	0				NA	27,514			
1965 1970	2,862	97 123	2,601 3,172	275 522 363	484 235	264 593	7,868 8,659	11,739	0				NA NA				
1970	2,452 2,134	123	3,172 4,712	455	117	593 523	8,559 8,548	13,023 14,355	0				NA NA				
1980	2,774	123	4,252	960	36	1,445	7,748	14,441	Ö				NA NA	32,968			
1985	4,145	97	3,615	693	642	441	8,111	13,504	0				ŅĄ	33,624			
1990 1995	3,846 3,777	110 126	3,399 3,682	761 777	583 865	269 346	9,770 9,743	14,782 15,414	0 827				(s)	35,313 44,828			
2000	3,349	130	2,443	1,384	561	66	11,716	16,169	520				(s)	32,289			
2005	3,149	95	4,046	1,323	1,212	302	16.485	23,367	772				(s)	33,625			
2006	3,018	94	3,433	1,520	1,369	177	17,573	24,072	581				`ó	34,081			
2007 2008	2,993 2,939	92 92	3,569 2,888	1,167 554	1,866 1,497	162	15,475 15,053	22,239 20,147	0				0	33,850 32,804			
2008	2,524	92 84	1,693	264	1,497	156 36	9,636	13,102	0				0	26,584			
2010	2.658	95	2,096	398	818	6	9,536	12,854	ő				Ö	28,930			
2011	2,578	107	1,906	514	852	25	10,108	13,405	0				0	28,638			
2012 2013	2,453 2,484	106 111	2,008 1,908	784 680	855 921	16 11	9,522 10,720	13,184 14,241	623 1.074				0	28,476 22,462			
2013	2,464	117	2.132	559	611	36	10,720	14,057	1,074				0	24,182			
2015	2,135	115	1,903	523	1,129	24	10,900	14,479	ŏ				ő	22,983			
2016	1,913	123	2,163	428	1,150	21	R 11,266 R 8,533	H 15.029	0				1	23,546			
2017	1,490	135	2,204	457	1,159	6 42	<sup>n</sup> 8,533 R 8,236	R 12,358 R 12,152	0				1	24,220			
2018 2019	1,412 1,230	147 148	2,213 2.041	453 532	1,207 1,194	42 59	R 8 237	R 12 063	0				6 6	21,599 21,105			
2020	1,112	146	2,082	667	1,207	59 79	R 8 033	R 12 067	ŏ				6	20,439			
2021	1,175	154	2,086	572	1,167	38	<sup>rt</sup> 8,226	<sup>rt</sup> 12,088	0				6	21,917			
2022	1,065	152	2,108	670	1,234	39	8,015	12,066	0				6	22,789			
									Trillion Bt	u							
1960	58.1	78.6	12.2	1.0	3.3	1.1	31.2	48.8	0.0		NA	NA	NA		298.9	R 189.3	R 488.2 R 557.5 R 588.4
1965	71.4	101.9	15.2	2.0	2.5	1.7	48.5	69.8	0.0		NA	NA NA	NA NA		367.1	R 190.3 R 194.1	R 557.5
1970 1975	58.0 49.9	125.9 115.1	18.5 27.4	1.3 1.6	1.2 0.6	3.7 3.3	53.5 53.3	78.3 86.2	0.0	37.3 37.3	NA NA	NA NA	NA NA		394.2 417.9	R 264 1	R 682.0
1980	67.2	125.1	24.8	3.4	0.2	9.1	48.1	85.6	0.0	49.4	NA	NA	NA	112.5	439.7	R 239.3 R 233.1	R 679.0
1985	102.2	100.6	21.1	2.4	3.4	2.8	51.3	80.9	0.0	57.9	2.5	NA	NA	114.7	458.8	R 233.1	R 691.9
1990 1995	96.8 94.9	113.6 129.8	19.8 21.4	2.6 2.7	3.1 4.5	1.7 2.2	62.1 61.8	89.3 92.6	0.0 R 2.8	33.3 40.7	2.2 2.3	0.0 0.0	(s) (s)	120.5 153.0	455.7 R 516.0	R 240.5 R 305.9	R 696.2 R 821.9
2000	87.4	134.6	14.2	4.7	2.9	0.4	74.1	96.4			2.3	0.0	(s)	110.2	H 473 2	R 239.9	R 713.0
2005	81.6	98.3	23.5	4.5	6.3	1.9	101.8	138.1	H 2.6	51.4	3.6	0.0	(s)	114.7	H 490.4	R 239 4	H 729.8
2006	78.2	97.3	19.9	5.2	7.1	1.1	107.1	140.4	n 2.0	45.0	3.6	0.0	0.0	116.3	H 482.7	R 248.0 R 250.1	R 730.7
2007 2008	77.6 76.6	95.6 95.4	20.6 16.7	4.0 1.9	9.6 7.6	1.0 1.0	94.2 91.3	129.4 118.5	0.0	43.1 51.4	3.8 4.6	0.0	0.0	115.5 111.9	465.1 458.4	" 250.1 R 220.7	R 715.1 R 698.1
2009	66.0	85.9	9.8	0.9	7.5	0.2	59.1	77.5	0.0	46.1	9.4	0.0	0.0		375.6	R 239.7 R 183.0	R 558.6
2010	69.5	96.9	12.1	1.5	4.1	(s) 0.2	58.7	76.5	0.0	53.1	9.4	0.0	0.0	98.7	404.1	H 207.6	R 611.7
2011	66.9	108.5	11.0	2.0	4.3		62.4	79.9	_ 0.0	50.4	10.0	0.0	0.0		413.4	R 197.0	R 610.4
2012 2013	63.9 64.6	107.1 113.1	11.6 11.0	3.0 2.6	4.3 4.7	0.1 0.1	58.6 65.2	77.6 83.6	R 2.1 R 3.7	55.3 54.9	9.0 9.4	0.0 0.0	0.0		R 412.2 R 405.7	R 192.1 R 146.5	R 604.3 R 552.3
2013	60.5	113.1	11.0	2.6	3.1	0.1	65.2 65.2	83.6	0.0	54.9 57.3	9.4	0.0	0.0		413.3	R 163 1	R 576.3
2015	55.9	119.2	11.0	2.0	5.7	0.2	66.2	85.0	0.0	57.3	9.3	0.0	0.0	78.4	405.1	H 151.5	H 556.6
2016	50.5	128.0	12.5	1.6	5.8	0.1	69.3	89.3	0.0	55.1	9.9	0.0	(s)	80.3	413.2	H 161 0	R 574.1
2017	39.3	140.1	12.7	1.8	5.9	(s) 0.3	R 53.4 R 51.6	73.7	0.0	51.1	9.9	0.0	, (s)	82.6	396.8	R 160.9 R 136.5	R 557.7
2018 2019	36.8 32.3	153.3 154.5	12.7 11.8	1.7 2.0	6.1 6.0	0.3	R 51.6	72.4 R 71.8	0.0	52.5 47.0	9.8 9.5	0.0	R (s) R (s)	73.7 72.0	398.6 387.2	R 128.4	R 535.1 R 515.6
2020	29.1	152.3	12.0	2.6	6.1	0.5	R 50.3	R 71 4	0.0		9.0	0.0		69.7	R 374 3	R 117.7	R 492.0
2021	30.6	160.2	12.0	2.2	5.9	0.5 0.2	R 51.7	H 72.0	0.0	49.6	9.3	0.0	R (s)	74.8	r 396.5	R 133.5	R 530.0
2022	27.5	158.6	12.2	2.6	6.2	0.2	50.3	71.5	0.0	30.4	8.6	0.0	(s)	77.8	374.4	139.6	514.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Tennessee

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
1960	40	5	1,040	2,914	22	570	505	26,468	8	31,527	(s)			
1965	9	23 26	1,040 1,024	2,914 4,346 7,189	22 54 94	1,174	505 479	31,721	22	31,527 38,819	(s)			
1970 1975	4 (e)	26 19	116	7,189 10,631	94 120	3,335 3,936	491 807	41,241 53 100	3 191	52,469 68 953	(s)			
1980	(s) 0	16	70 290	10,631 13,196	61	4,154	807 676	53,199 54,446	6	68,953 72,828	(s)			
1985	0	10	154 174	15.268	166	4,862	615	57.068	0	78.134	(s)			
1990 1995	0	20 18	1/4 397	19,857 20,702	126 135	4,181 8,096	692 660	56,954 63,907	5	81,989 93,899	(S)	 	 	
2000	0	14	124	23 293	75	12,857	705	68.252	0	105.305	2			
2005	0	9	102	29,483 29,694	221	13.915	595	73,105 73,486	58 12	117.480	1			
2006 2007	0	9	89 104	29,694 30,389	231 162	14,207	580 599	73,486 74,155	12 5	118,298 119,225	1			
2007	0	10 10	119	26,369	248	13,811	599 556	74,155 72,105	45	119,225	2			
2009	ŏ	12	127	26,802 23,764	131	12,669 11,179	556 500 595	72,105 74,455	0	112,545 110,155	2			
2010	0	10	168	25.516	23	12.465	595	75,694	0	114.461	2			
2011 2012	0	12 10	114 68	26,366 24,793	26 25 32 27	11,998 11,274	576 519 544 572	74,571 73,691	0 52	113,651 110,422	2 2	 		
2012	0	7	63	24,793	32	11,664	544	74,568	51	111,904	2			
2014	ŏ	7	63 62	26.328	27	11.775	572	75.634	5	114.403	1			
2015	0	8	70	26,665	38	12,366	628	75,961	12	115,739	0			
2016 2017	0	6	73 76	25,740 26,113	47 34	13,088 13,670	628 R 594 R 552	79,104 79,504	0 15	R 118,646 R 119,964	0			
2018	0	8	83	28,317	14	13,688	R 534	75,504 77.945	0	R 120.582	0			
2019	ŏ	15	83 94	28,917	14 17	14,613	R 534 R 521	77,945 78,823	13	R 120,582 R 122,999	Ŏ			
2020	0	17	86	26,635 R 27,589	19	13,718	R 466 R 497	71.711	0	H 112.636	0			
2021 2022	0	18 19	100 103	27,850	12 27	16,695 15,066	528	77,252 77,694	9	R 122,581 121,718	0			
				,		· · · · · · · · · · · · · · · · · · ·	Tri	Ilion Btu						
1960	1.0	5.5	5.2	17.0	0.1	3.1	3.1	139.0	0.1	167.6	(s)	174.1	(s)	174.1
1965 1970	0.2 0.1	23.7 27.0	5.2 0.6	25.3 41.9	0.2	6.5	2.9 3.0	166.6	0.1	206.9 281.2	(s)	230.9 308.4	(s)	230.9
1970		27.0	0.6	41.9	0.4	18.8	3.0	216.6	(s)	281.2	(s)	308.4	(s)	308.4
1975	(s) 0.0	19.7 16.8	0.4 1.5	61.9 76.9	0.5 0.2	22.2 23.4	4.9 4.1	279.5 286.0	1.2	370.5 392.1	(S)	390.3 408.9	(S)	390.3 408.9
1980 1985	0.0	16.8 10.5	1.5 0.8	76.9 88.9	0.6	23.4 27.5	4.1 3.7	286.0 299.8	(s) 0.0	392.1 421.3	(s)	408.9 434.2	(s)	408.9 434.2
1990	0.0	20.3	0.9	115.7	0.5	23.6	4.2	299.2	(s) (s) 0.0	444.0	(s)	466.3	(s)	466.3
1995 2000	0.0 0.0	18.3 14.4	2.0 0.6	120.5 135.5	0.5 0.3	45.9 72.9	4.0 4.3	332.6 355.0	(s)	505.5 568.6	(S)	523.8 583.0	(S) (S)	523.8 583.0
2005	0.0	9.5	0.5	171.5	0.3	72.9 78.9	3.6	379.6	0.4	635.3	(s)	645.2	(s)	645.2
2006	0.0	9.0	0.4	172.3	0.9	80.6	3.6 3.5 3.6 3.4	381.0	0.1	638.8	(s)	648.8	(s)	648.8
2007	0.0	10.4	0.5	175.8	0.6	78.3	3.6	381.3	(s) 0.3	640.2 600.1	(s)	651.8	(s)	651.8
2008 2009	0.0 0.0	10.6 12.1	0.6 0.6	154.9 137.3	1.0 0.5	71.8 63.4	3.4 3.0	368.2 379.0	0.3 0.0	600.1 583.8	(S)	611.8 595.9	(S)	611.8 595.9
2010	0.0	10.3	0.8	137.3 147.4	0.5	70.7 68.0	3.6 3.5	383.5 377.6	0.0	606.1 601.9	(S)	616.5	(s)	616.5
2011	0.0	11.8	0.6	152.1	0.1	68.0	3.5	377.6	0.0	601.9	(s)	613.7	(s)	613.7
2012 2013	0.0 0.0	10.0 6.9 7.6	0.3 0.3	143.0 144.0	0.1 0.1	63.9 66.1	3.1 3.3 3.5 3.8	373.0 377.3	0.3 0.3	583.8 591.5	(s)	593.9 598.4	(s)	593.9 598.4
2013	0.0	7.6	0.3	151.7	0.1	66.8	3.5	377.3 382.6	(s)	605.0	(s) (s)	612.7	(s)	612.7
2015	0.0	8.5	0.4	153.6	0.1	70.1	3.8	384 1	(s) 0.1	612.3	Ò.Ó	620.8	(s) 0.0	620.8
2016	0.0	8.5 7.2 5.8	0.4	148.2	0.2	74.2	3.6 R 3.3 R 3.2	399.9 401.7	0.0	626.4 633.5	0.0	633.6	0.0	633.6 639.3
2017 2018	0.0 0.0	5.8 8.8	0.4 0.4	150.3 163.1	0.1 0.1	77.5 77.6	⊓ 3.3 R a a	401.7 393.9	0.1 0.0	633.5 R 638.3	0.0 0.0	639.3 647.1	0.0 0.0	639.3 647.1
2019	0.0	15.7	0.4	166.5	0.1	82.9	R 3.2	398.2	0.0	651 4	0.0	667.1	0.0	667.1
2019 2020	0.0	18.1	0.4	166.5 153.3	0.1	77.8	R 3.2 2.8	398.2 362.3	0.0	651.4 596.7	0.0	614.8	0.0	_ 614.8
2021	0.0	19.2	0.5	H 159.0	(s) 0.1	94.7	H 3.0	390.1	0.1	<sup>H</sup> 649.7	0.0	R 668.9	0.0	R 668.9
2022	0.0	19.3	0.5	160.6	0.1	85.4	3.2	392.3	0.1	644.5	0.0	663.8	0.0	663.8

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Tennessee

				Petro	oleum		Nueleer		Biomass				Electricity:	
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	12,138	7	(s) 0	0	0	(s) 0	0	8,676		0	NA	NA	0	
1965 1970	10,637 14,727	16 17	Ó	0	0	0	0	8,750 8,067		0	NA NA	NA NA	0	
1970	14,727	0	1,310	0	0	1,310	0	11,806		0	NA NA	NA NA	0	
1980	21,679	1	406	ő	ő	406	519	8,764		ŏ	ŇÄ	ŇÄ	ő	
1985	20,853	0	237	0	0	237	9,672	6,539		0	0	0	0	
1990	20,814 23,477	1 2	232 455	0	0	232 455	14,003	10,015		0	0	0	0	
1995 2000	23,477	2 5	455 1,059	0	0	455 1,059	15,708 25,825	8,802 5,876		0	0	0	0	
2005	26,119	6	400	0	0	400	27,803	8,538		0	0	3	0	
2006	27,216	7	260	Ö	Ŏ	260	24,679	7,167		Ö	Ŏ	55 50	Ö	
2007	27,348	7	278	0	0	278	28,700	4,940		0	0	50	0	
2008	26,632	4	390 348	0	0	390 348	27,030	5,646		0	0	50	0	
2009 2010	19,462 20,622	22	348 397	0	0	348 397	26,962 27,739	10,212 8,138		0	0	52 41	0	
2011	19,967	26	372	0	0	372	26,919	9,576		0	0	53	0	
2012	17,466	26 63	372 295	Ö	Ö	372 295	25,102	7,673		Ö	10	53 47	Ö	
2013	16,686	37	251	0	0	251	28,494	11,369		0	18	47	0	
2014 2015	17,903 14,967	45 70	355 265	0	0	355 265	27,670 24,960	8,901 9,581		0	25 73	51 46	0	
2015	15,863		200 236	0	0	236	24,960	6,774		0	73 75	38	0	
2017	14,546	88 76	236 244	Ŏ	ő	244	31.818	8,691		ő	88	43	22	
2018	10.359	103	226	0	0	226	36,176	10.293		0	157	41	0	
2019	9,362	119	270	0	0	270	35,720	10,130		0	315	38	0	
2020 2021	6,869 8,915	105 99	210 254	0	0	210 254	36,688 35,330	13,452 10,871		0	314 328	39 28	0	
2021	8,371	123	254 362	0	0	362	35,635	9,198		0	666	15	0	
							Trillion Btu							
1960	291.8	7.5	(s)	0.0	0.0	(s)	0.0	R 29.6 R 29.9	0.0	0.0	NA	NA	0.0	R 328.9
1965	250.9	17.0	(s) 0.0	0.0	0.0	(s) 0.0	0.0	R 29.9	0.0	0.0	NA	NA	0.0	H 297.8
1970	332.7	17.6	0.0	0.0	0.0	0.0	0.0	R 27.5	0.0	0.0	NA	NA	0.0	R 377.9
1975 1980	414.3 504.1	0.0 1.1	7.6	0.0 0.0	0.0 0.0	7.6 2.4	0.0 5.7	R 40.3	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	R 462.2 R 543.2
1985	493.3	0.0	2.4 1.4	0.0	0.0	1.4	102.7	R 29.9 R 22.3	0.0	0.0	0.0	0.0	0.0	R 619.7
1990	498.4	0.6	1.4	0.0	0.0	1.4	148.2	H 2/1/2	0.0	0.0	0.0	0.0	0.0	R 682.6
1995	570.4	2.1	2.6	0.0	0.0	2.6	165.0	R 30.0	0.2	0.0	0.0	0.0	0.0	R 770.5
2000	614.8	5.4	6.2	0.0	0.0	6.2	269.3	R 20.0	0.4	0.0	0.0	0.0	0.0	R 916.1
2005 2006	575.3 597.9	5.8 6.9	2.3 1.5	0.0 0.0	0.0 0.0	2.3 1.5	290.2 257.5	R 29.1 R 24.5	0.3 0.3	0.0 0.0	0.0 0.0	R (s)	0.0 0.0	R 903.0 R 888.8
2007	593.4	7.5	1.5	0.0	0.0	1.6	301.0	H 16 9	0.3	0.0	0.0	Hn2	0.0	R 920 8
2008	564.8	7.5 4.5	1.6 2.3	0.0	0.0	2.3	282.5	R 193	0.3	0.0	0.0	R <sub>0.2</sub>	0.0	R 873.9 R 732.5
2009	409.3	3.8	2.0	0.0	0.0	2.0	282.0	R 34.8 R 27.8	0.3	0.0	0.0	R 0.2	0.0	R 732.5
2010	443.8	22.6	2.3	0.0	0.0	2.3	289.9	H 27.8	0.3	0.0	0.0	R 0.1 R 0.2	0.0	R 786.8
2011 2012	412.4 357.6	26.5 63.6	2.1 1.7	0.0 0.0	0.0 0.0	2.1 1.7	281.7 263.0	R 32.7 R 26.2	0.4 0.6	0.0 0.0	0.0 B (s)	" 0.2 R o 2	0.0 0.0	R 755.9 R 712.9
2012	333.6	37.3	1.4	0.0	0.0	1.4	297.7	R 38.8	0.8	0.0	R (s) R 0.1	R 0.2 R 0.2	0.0	R 709.9
2014	365.5	46.0	2.0	0.0	0.0	2.0	289.4	R 30.4	0.9	0.0	H 0 1	R 0.2 R 0.2	0.0	R 734.5
2015	314.6	70.2	1.5	0.0	0.0	1.5	261.0	H 32.7	0.9	0.0	R 0.3	R 0.2	0.0	H 681.3
2016	329.3	88.3	1.4	0.0	0.0	1.4	309.4	R 23.1 R 29.7	0.9	0.0	R 0.3 R 0.3	R 0.1 R 0.1	0.0	R 752.6 R 736.3
2017 2018	295.2 215.0	75.8 103.1	1.4 1.3	0.0 0.0	0.0 0.0	1.4 1.3	332.8 378.2	R 29.7 R 35.1	0.9 0.9	0.0 0.0	R 0.3	R 0.1	0.1 0.0	R 736.3 R 734.3
2019	184.5	118.7	1.6	0.0	0.0	1.6	373.0	R 34 6	0.9	0.0	R11	R 0.1	0.0	R 714 5
2020	147.0	105.0	1.2	0.0	0.0	1.2	383.2	H 45.9	0.9	0.0	R11	R 0.1	0.0	H 684.4
2021	195.2	98.6	1.5 2.1	0.0	0.0	1.5	R 368.5	R 37.1	0.8	0.0	R 1.1	R 0.1	0.0	H 702.8
2022	177.2	123.2	2.1	0.0	0.0	2.1	371.6	31.4	0.8	0.0	2.3	0.1	0.0	708.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>--=</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Texas

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthou	rs	Thousan	d barrels
1960	1,067	2.720	24,400	73,297	10,842	91,841	22,584	72,395	295,360	0	1.102	0	NA	NA
1965	1,146	2,720 3,068	24,854	109,109	15,365	107,851	14,322	113,002	384,503	Ö	1,102 743	0	NA	NA
1970 1971	1,154 921	4,093 4,365	32,410 34,926	151,223 154,363	24,430 25,067	141,393 148,620	14,146 12,126	154,372 155,984	517,973 531,087	0	1,005 880	0	NA NA	NA NA
1972	2 774	4.413	46.020	178,294	25 910	159 242	14 860	172.390	531,087 596,717	ŏ	830	ŏ	NA	NA
1973 1974	7,885 8,476	4,621	53,752	185,463	26,533 25,955	169,451 167,865	29,754 35,968	185,936	650,889 651,477	0	1,700	0	NA	NA
1974 1975	12,765	4,463 3,944	55,721 54,706	180,319 161,478	25,955 27,308	167,865 175,538	35,968 38 536	185,649 172,091	651,477 629,658	0	1,631 1,927	0	NA NA	NA NA
1975 1976	15,981	3,944 3,975	58,322	161,013	25,641	175,538 186,703	38,536 44,304	172,091 201,434	629,658 677,418 749,341 795,318	Ö	1.068	ő	NA	NA
1977	19,671	4.143	74,729	162,361	26,704	195 017	53 725	236 805	749,341	0	1,169 765	0	NA	NA
1978 1979	28,759	4,211 4,001	80,965 80,011	165,026	27,954 29,263	201,991 195,984	60,875 72,076	258,507 289,645	/95,318 874.314	0	/65 1 202	0	NA NA	NA NA
1980	39,409 48,602	4,091	89,011 72,513	198,336 216,760	30,934	180,997	72,076 65,070	289,645 293,865	874,314 860,139 834,656	0	1,202 979	0	NA NA	NA
1981	56.364	3.927	90.679	230.285	30.922	185.175	67,308 59,968	230.286	834,656	0	1.145	0	0	NA
1982 1983	61,217 68,201	3,394 3,242	90,523 96,961	217,634 202,787	42,809 47,270	190,663 195,020	59,968	187,766 199,073	789,363 784,300	0	1,027 1,107	0	91 656	NA NA
1984	72,452	3,433	83,989	292,366	64.626	196,755	43,198 35,390 28,713	179.857	784,309 852,982 848,522	0	1,031	0	464	NA NA
1984 1985	77,017	3,433 3,386	79.984	284,231	64,626 74,500	205,419	28,713	179,857 175,675	848,522	Ö	1.401	Ö	464 807	NA
1986 1987	79,259	3,186 3,303	73,832 70,309	276,043 302,924	80,214 84,562	209,513 205,338	27,842 21,971	199,227 199,240	866,671 884,344	0	1,972 2,158	0	787	NA NA
1988	82,915 86,644	3,303	69,437	302,924	94,562	205,336	21,971	218 086	935 895		1 235	0	1,107 830	NA NA
1988 1989	91,443	3,531 3,744	73,839	320,571 333,269	94,793 93,265	208,680 203,520	24,328 28,570	218,086 212,371	944,834	3,792 9,990	1,235 1,441	Ō	830 626	NA
1990 1991	91,415	3,729 3,688	67,909	326,112 359,778	95,903 90,674	205,402 198,780	27,463 28,434	240,278 229,169	963,066	15,859	1,794 2,225	0	584 582	NA
1991	92,064 91,568	3,688	72,666 76,195	359,778 375,843	90,674	200,686	28,434 30,595	246,681	935,895 944,834 963,066 979,501 1,020,028 1,009,194	19,800 24,496	2,225 2,638	0	658	NA NA
1993	96,809	3,818	81,982	375,843 366,203	86,961	207,441	30,595 22,566	244,041	1,009,194	12,407	1.786	ŏ	150	NA
1994	93,829	3,746	83,328	403 348	83.397	218,772	21 623	250,902	1,061,369 1,062,243	28,745	1,530 1,703 960	0	371	NA
1995 1996	92,612 98,997	3,893 4,132	88,126 96,751	415,037 441,959	83,002 99,870	213,428 226,381	22,544 20,292	240,105 256,198	1,062,243 1,141,450	36,151 35,767	1,703	0 83	1,215 452	NA NA
1997	101,303	4,116	98,062	492,508	105,655	224,997	22,092 25,507	282,505	1,225,820	37,358	1,791 1,425	81	1,069 1,583	NA
1998	99,097	4.206	106,480	486.459	108,635	236,779	25,507	274,658	1.238.518	38.685	1,425	80	1,583	NA
1999 2000	102,151 101,578	4,010 4,422	104,717 111,848	494,933 457,553	104,896 102,717	242,992 249,819	18,115 21,810	259,294 256,389	1,224,947 1,200,135	36,760 37,556	1,120 829	320 492	1,364 1,563	NA NA
2001	96.894	4,422	119.392	433.096	112.845	256.553	17.237	253 063	1,192,186	38 163	1.200	1.188	1,582	
2002	96,894 99,785	4,273 4,323	114,102	457,107	112,845 115,598	256,553 268,490	17,237 16,993	258,993	1,192,186 1,231,283 1,242,741 1,284,977	35,618	1,200 1,123	2,656	1,582 689	27 43 36 71
2003 2004	104,542 105,922	4,071 3,930	118,008 120,621	465,283 485,249	101,335 88,821	269,532 275,724	18,554 21,548	270,029 293,015	1,242,741	33,437 40,435	897 1,301	2,570 3,138	561 665	36
2005	105,327	3,523	127.873	447.915	80 382	278,350	26 026	278.862	1 239 409	38.232	1,333	4.237	401	240
2006	105,327 103,763	3,523 3,455 3,538	141,350	447,915 446,844	81,452 75,409	278,350 285,419	27,958 32,671	278,862 282,511	1,265,534 1,249,373	38,232 41,264	1,333 662 1,644	6,671	10,833	689
2007 2008	104,784 103,657	3,538	144,541 141.292	465,349 370,537	75,409 72,516	290,606 288,139	32,671 28,724	240,798	1,249,373	40,955 40,727	1,644	9,006 16,225	15,466	933 801
2009	96,253	3,564 3,403	130,446	322 271	61,808	288,646	25,272	198,337 191,224	1,099,545 1,080,266	41,498	1,039 1,029 1,262 563	20,026	18,391 19,278	849
2010	101,244	3,589 3,708	140,575 158,751	R 460,379 R 456,735	45,595 46,157	293,814	31,123 31,148	204,325 203,748	R 1,175,812 R 1,186,461	41,335 39,648	1,262	26,251	24,813 29,444	686 2,339
2011	111,066	3,708	158,751	H 456,735	46,157 45,480	289,923	31,148	203,748 204,646	<sup>rt</sup> 1,186,461	39,648	563	30,548 32,214	29,444	2,339
2012 2013	98,263 103,498	3,864 4,034 3,938	160,618 166,109	R 489,075 R 534,923 R 504,004	45,480 47,262	292,573 301,856	21,347 20,468	204,646 219,569	R 1,213,739 R 1,290,188	38,441 38,315 39,287	584 480	32,214 35,874	27,593 27,541 30,424 31,458 35,020	2,900 5,467
2014	102,962	3,938	189.868	R 504,004	47 670	314 632	21 214	201 028	H 1 278 417	39,287	386	40.005	30,424	5,467 4,775
2015	87,737	4,124 4,030	176,371	H 553 310	52,275 53,026	329,038 337,977	20,455 30,436	203,002 R 207,717	R 1,334,461 R 1,370,246	39,355 42,079	956 1,342	44,833	31,458	5,254 7,909
2016 2017	86,803 94,117	4,030 3,875	177,197 181,519	R 563,895 R 583,256	53,026 52,623	337,977 340,217	30,436	R 211 805	R 1,400,330	42,079 38,581	1,342 1,062	57,531 67,061	35,020 35,410	7,909 6,943
2018	76,429	3,875 4,471	197,923	R 583,256 R 693,032	52,623 53,240	340,217 346,231	25,363	R 211,805 R 212,184	R 1 527 974	41,186	1,062 1,126	75,700	35,410 35,736	7.867
2019	63,814	4 678	199,468	H 708 700	56 664	348 683	26,344 _ 21,779	R 211,873 R 197,426	R 1,551,732 R 1,430,046	41,298	1,475 1,079	83,620	36,642 31,926	R 7.155
2020 2021	56,365 62,020	R 4,682 R 4,673	169,098 R 183,334	R 705,769 R 772,935	34,988 44,176	300,985 332,122	21,779 R 28,188	R 197,426 R 202,107	R 1,430,046 R 1,562,861	41,439 40,211	1,079 1,082	92,441 99,474	31,926 35,458	6,364 R 4,761
2021	59,340	4,889	188,127	736,406	49,813	342,083	28,884	192,064	1,537,376	41,607	620	114,787	36,607	4,338

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Texas (trillion Btu)

					Fossi	l fuels						Fossil fuels (as commingled)	
						Petroleum						as commingieu)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	25.0	2,815.5	142.1	278.1	58.6	482.4	142.0	432.8	1,536.1	4,376.5	2,815.5	142.1	482.4
1965 1970	29.2 30.8	3,181.5	144.8	414.1	84.3	566.5 742.7	90.0 88.9	663.4 897.6	1,963.2 2,610.3	5,173.9	3,181.5	144.8	566.5
1970	30.8	4,203.9	188.8	556.2	135.9	742.7	88.9	897.6	2,610.3	6,844.9	4,203.9	188.8	742.7
971 972	24.0 50.1	4,482.6	203.4	565.8 650.1	139.4	780.7 836.5	76.2	906.9 1,002.9	2,672.6 2,995.4	7,179.2	4,482.6	203.4 268.1	780.7
972	125.9	4,531.8 4,746.2	268.1 313.1	674.0	144.4 148.2	890.1	93.4 187.1	1,002.9	2,995.4 3,295.6	7,577.3 8,167.7	4,531.8 4,746.2	268.1 313.1	836.5 890.1
974	133.1	4,584.0	324.6	655.5	144.9	881.8	226.1	1,079.8	3,312.7	8,029.8	4,584.0	324.6	881.8
975	196.2	4,046.9	318.7	584.2	152.7	922.1	242.3	1,000.8	3 220 7	7.463.8	4.046.9	318.7	922.1
976	226.3	4,074.7	339.7	575.0	143.3	980.8	278.5	1,163.9	3,481.3	7,782.3	4,074.7	339.7	980.8
977	288.2	4,254.9	435.3	569.3	149.3	1,024.4	337.8	1,369.4	3.885.4	8,428.4	4,254.9	435.3	1,024.4
978	418.4	4,329.8	471.6	576.3	156.5	1,061.1 1,029.5	382.7 453.1	1,497.4	4,145.6 4,561.3	8,893.8	4,329.8	471.6	1,061.1
1979 1980	587.6 734.1	4,131.4 4,226.1	518.5 422.4	721.6 796.6	164.0 173.3	950.8	409.1	1,674.5 1,699.8	4,561.3 4.451.9	9,280.3 9,412.2	4,131.4 4,226.1	518.5 422.4	1,029.5 950.8
1981	858.5	4,052.3	528.2	834.2	173.4	972.7	423.2	1,335.9	4,451.9 4,267.5	9,178.4	4,052.3	528.2	972.7
982	931.1	3,503.0	527.3	778.2	240.7	1.001.6	377.0	1.095.5	4.020.3	8,454.3	3.503.0	527.3	1,001.6
983	1,016.8	3,335.5	564.8	704.2	266.0	1,024.4	271.6	1,164.5	3,995.6	8,347.9	3,335.5	564.8	1,024.4
984	1,074.9	3,556.2	489.2	1,036.6	364.3	1,033.6	222.5	1,052.1	4,198.4	8,829.4	3,556.2	489.2	1,033.6
985	1,149.0	3,514.4	465.9	1,009.4	420.5	1,079.1	180.5	1,036.0	4,191.4 4,323.4	8,854.8	3,514.4 3,312.9	465.9	1,079.1
986 987	1,162.7 1,203.9	3,312.9 3,435.4	430.1 409.6	993.8 1,101.3	453.0 477.6	1,100.6 1,078.6	175.0 138.1	1,170.9	4,323.4	8,799.0 9,009.8	3,312.9 3,435.4	430.1 409.6	1,100.6 1,078.6
988	1,264.1	3,665.2	404.5	1,156.4	535.5	1,096.2	153.0	1,165.2 1,275.2	4,370.5 4,620.7	9,550.0	3,665.2	404.5	1,076.2
989	1,335.9	3,886.1	430.1	1,213.0	526.9	1.069.1	179.6	1,232.5	4.651.2	9,873.3	3 886 1	430.1	1.069.1
990	1,333.7	3,876.5	395.6	1 166 8	542.1	1 079 0	172.7	1,402.4	4,651.2 4,758.5	9,968.7	3,877.8	395.6	1,079.0
991	1,333.4	3,823.1	423.3	1,284.6 1,351.6 1,309.2	512.8	1,044.2 1,054.2 1,081.7	178.8	1,339.2	4 782 9	9,939.4	3.824.2	423.3 443.8 477.5	1,044.2
992 993	1,324.1	3,768.3	443.8	1,351.6	509.1	1,054.2	192.3	1,435.2 1,424.9	4,986.3 4,927.3	10,078.7 10,283.1	3,768.3	443.8	1,054.2 1,082.2
993	1,430.7	3,925.2	477.5	1,309.2	492.0	1,081.7	141.9	1,424.9	4,927.3	10,283.1	3,925.2	4//.5	1,082.2
994 995	1,389.4 1,364.8	3,885.1 4,037.5	485.0 512.9	1,457.1 1,490.8	472.5 470.5	1,139.4 1,106.5	135.9 141.7	1,459.6 1,399.1	5,149.5 5,121.5	10,424.0 10,523.8	3,885.1 4,037.5	485.0 512.9	1,140.7 1,110.7
996	1,485.6	4,268.7	563.1	1,576.5	566.2	1,178.1	127.6	1,486.2	5,497.7	11,251.9	4,268.7	563.1	1,179.7
997	1,523.2	4,231.6	570.7	1,751.9	599.0	1,167.4	138.9	1,635.1	5,863.0	11,617.8	4,231.6	570.7	1,171.1
998	1,488.6	4,378.0	619.6	1.726.3	616.0	1.226.5	160.4	1,585.7	5.934.4	11,801.0	4.378.0	619.6	1,232.0
999	1,530.4	4,138.1	609.3	1,766.5	594.8	1,259.3	113.9	1,498.5	5,842.3	11,510.8	4,138.1	609.3	1,264.0
000	1,548.2	4,550.1	650.8	1,632.4	582.4	1,293.9	137.1	1,470.4	5,767.1	11,865.4	4,550.1	650.8	1,299.3
001 002	1,493.0 1,550.3	4,382.9 4,444.5	694.7 664.0	1,541.2 1,619.3	639.8 655.4	1,328.8 1,393.5	108.4 106.8	1,460.6 1,485.9	5,773.6 5,924.9	11,649.5 11,919.7	4,384.5 4,444.5	694.7 664.0	1,334.3 1,395.9
002	1,604.0	4,444.5 4,177.1	686.7	1,654.0	574.6	1,398.8	116.7	1,548.2	5,979.0	11,760.1	4,177.1	686.7	1,400.8
004	1,626.0	4,039.8	701.8	1,716.5	503.6	1,430.4	135.5	1,673.9	6,161.7	11,827.5	4,039.8	701.8	1,432.7
005	1,627.9	3,621.1	744.0	1.583.6	455.8	1.443.8	163.6	1,597.1	5.987.8	11,236.8	3,621.1	744.0	1.445.2
006	1,610.3	3,544.8	820.3	1,562.0	461.8	1,442.3	175.8	1,624.0	6,086.2	11,241.3	3,544.8	820.3	1,479.9
007	1,609.2	3,626.5	836.0	1,621.8	427.6	1,440.7	205.4	1,385.6	5,917.1	11,152.8	3,626.5	836.0	1,494.3
008 009	1,605.9 1,497.9	3,653.5 3,481.1	816.7	1,288.0 1,303.5	411.2 350.5	1,407.5	180.6	1,141.3	5,245.2	10,504.6	3,653.5	816.7	1,471.2 1,469.2
010	1,497.9	3,481.1	746.5 806.7	R 1,554.6	258.5	1,402.5	158.9 195.7	1,096.9	5,058.7 R 5 300 0	10,037.7 R 10,648.6	3,481.1 3,689.6	753.6 811.8	1,469.2 1,488.8
011	1,695.2	3,800.6	902.7	H 1.495.2	261.7	1,402.5 1,402.7 1,365.8	195.8	1,096.9 1,172.8 1,168.2	R 5,390.9 R 5,389.3	n 10 885 1	3,800.6	916.0	1,467.9
012	1,498.8	3,964.1	912.2	R 1,633.2 R 1,805.4	257.9	1,385.3 1,431.8	134.2	1,177.5	H 5 500 2	R 10,963.1 R 11,552.5	3,964.1	926.3	1,481.0
013	1,597.4	4,131.2	930.2	R 1,805.4	268.0	1,431.8	128.7	1,259.8	H 5.823.9	R 11,552.5	4,131.2	957.3	1,527.4
014	1,586.0	4,060.6	1,065.3	H 1.682.9	270.3	1,486.1 1,554.7	133.4	1,160.2	H 5.798.2	H 11 444 7	4,060.6	1,094.2	1,591.7
015 016	1,340.4 1,323.1	4,263.9	985.9 980.0	R 1,880.7 R 1,887.4	296.4	1,554.7	128.6 191.3	1,173.8 R 1,226.5	R 6,020.2	R 11,624.5 R 11,647.0	4,263.9 4,151.1	1,016.2	1,663.9
016 017	1,323.1 1,452.0	4,151.1 3,987.8	980.0 1,006.3	R 1,936.0	300.7 298.4	1,586.9 1,596.0	191.3 194.3	11,226.5 R 1,245.7	R 6,172.8 R 6,276.8	R 11,716.5	4,151.1 3,987.8	1,020.1 1,045.0	1,708.5 1,719.1
017	1 189 3	4 596 6	1,102.3	R 2 276 5	301.9	1 625 3	159.5	R 1 2/6 9	R 6,276.8 R 6,712.3	H 12 /02 2	4,596.6	1,139.8	1,749.9
019	992.7 872.8	_ 4,795.2	1,112.6	H 2 352 7	321.3	1,634.0	165.6	H 1 25/1 2	H 6 840 4	R 12,628.3	4 795 3	1,148.7	1,761.5
020	872.8	4,795.2 R 4,783.3	939.1	H 2 321 2	198.4	1,634.0 1,409.6	136.9	H 1,169.2	H 6.174.4	R 12,628.3 R 11,830.5	R 4,784.9	973.3	1,520.6
2021	968.4	<sup>H</sup> 4,773.1	R 1,041.2	H 2,567.0	250.5	1,553.9	177.2	H 1,201.0	<sup>H</sup> 6,776.1	<sup>H</sup> 12,517.6	H 4,775.7	R 1,056.7	1,677.2
2022	932.6	4,977.4	1,068.8	2,299.3	282.4	1,599.7	181.6	1,154.4	6,572.7	12,482.6	4,982.3	1,084.5	1,727.2

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Texas (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 3.8	38.3	NA	NA	NA	NA	38.3	0.0	NA	NA	R 42.1	R -57.4	-0.6	R 4,360.6 R 5,130.1 R 6,800.7 R 7,100.5 R 7,484.5
1965 1970	0.0 0.0	R 3.8 R 2.5 R 3.4	41.2	NA NA	NA NA	NA NA	NA NA	41.2 52.2	0.0 0.0	NA NA	NA NA	H 43 7	R -57.4 R -87.2 R -99.5 R -132.4 R -153.9 R -128.6 R -158.0 R -171.3 R -161.7 R -150.7 R -191.7 R -252.0 R -254.2 R -254.5 R -226.1 R -175.8	-0.3 -0.4	H 5,130.1
1971	0.0	H 3.0	52.2 51.3	NA	NA	NA	NA	51.3	0.0	NA	NA NA	R 55.6 R 54.3	R -132.4	-0.6	R 7,100.5
1972	0.0 0.0	R 2.8	58.9	NA NA	NA NA	NA NA	NA NA	58.9 60.4	0.0 0.0	NA NA	NA NA	R 61.8 R 66.2	H -153.9	-0.7 -1.1	H 7,484.5
1973 1974	0.0	R 5.8 R 5.6	60.4 59.7	NA NA	NA NA	NA NA	NA NA	59.7	0.0	NA NA	NA NA	H 65.2	R -158.0	-1.1 -1.2	R 8,104.2 R 7,935.8
1975	0.0	R 6.6	55.8	NA	NA	NA	NA	55.8	0.0	NA	NA	R 62.4	R -171.3	-1.2	7,935.8 R 7,353.7 R 7,688.3 R 8,351.9 R 8,780.9 R 9,148.1 R 9,217.2 R 8,985.6
1976 1977	0.0 0.0	R 3.6 R 4.0	64.9 70.4	NA NA	NA NA	NA NA	NA NA	64.9 70.4	0.0 0.0	NA NA	NA NA	R 68.5 R 74.4	R -161./	-0.8 -0.2	7,688.3 R 8 351 9
1978	0.0	R 2.6	76.3	NA	NA	NA	NA	76.3	0.0	NA	NA	R 78.9	R -191.7	-0.1	R 8,780.9
1979 1980	0.0	R 4.1	77.3	NA NA	NA NA	NA NA	NA NA	77.3	0.0 0.0	NA NA	NA NA	R 81.4	H -213.6	-0.1 -2.0	H 9,148.1
1981	0.0	R 3.3 R 3.9	55.6 58.5	0.0	NA	NA		55.6 58.5	0.0	NA	NA	R 59.0 R 62.5	R -254.2	-1.0	R 8,985.6
1982 1983	0.0	R 3.5 R 3.8	69.7 64.1 76.2	0.3	NA	NA	(s) (s)	70.0 66.4	0.0	NA NA	NA	R 73.5 R 70.2	R -254.5	(s) 0.2	R 8,273.3 R 8,192.2 R 8,735.2 R 8,824.1
1984	0.0 0.0	H35	64.1 76.2	2.3 1.6	NA NA	NA NA	(s) (s)	66.4 77.9	0.0 0.0	NA 0.0	0.0 0.0	H 81.4	H -226.1 R -175.8	0.2	R 8,192.2
1985	0.0	R⊿a	78.8	2.8	NA	NA	(s) (s)	81.7	0.0	0.0 0.0	0.0	H 86 /	R <sub>-</sub> 117.2	(s) (s) -0.1	R 8,824.1
1986 1987	0.0 0.0	R 6.7 R 7.4 R 4.2	89.7 94.4	2.7 3.8	NA NA	NA NA	(s) (s)	92.5 98.2	0.0 0.0	0.0 0.0	0.0 0.0	R 99.2 R 105.6	H -81.7 R -35.8	(s) -0.1	<sup>n</sup> 8,816.5
1988	40.2	R 4.2	96.1	2.9	NA NA	NA	(s)	99.0	0.0	0.0	0.0	R 103.2	R -22.0	-0.1	R 9,671.4
1989	105.7	H⊿q	109.8	2.2	NA	NA	(s)	112.0	0.2	R 0.3	0.0	R 117 5	R -177.1	-0.2	R 9,919.2
1990 1991	167.8 207.6	R 6.1 R 7.6	96.0 96.4	2.0 2.0	NA NA	NA NA	(S)	98.0 98.4	0.2 0.3	0.4 0.4	0.0 0.0	R 104.7 R 106.7	" -161.1 R -172.1	-0.2 -1.5	R 10,080.0
1992	256.5	R 9.0	105.8	2.3	NA	NA	(s) (s) (s) 0.0	108.1	0.3	0.4	0.0	H 117 8	R-81.7 R-35.8 R-22.0 R-177.1 R-161.1 R-172.1 R-213.4 R-172.6 R-210.7 R-156.8 R-149.1 R-163.1 R-205.6 R-216.4	-3.3	R 9,671.4 R 9,919.2 R 10,080.0 R 10,080.0 R 10,236.3
1993 1994	130.3 300.4	R 6.1	98.0 97.5	0.5 1.3	NA NA	NA NA	0.0 0.0	98.6 98.8	0.3 0.3	0.4 0.5	0.0 0.0	R 105.4 R 104.8	H -176.7 R -172.6	-2.7 -3.3	R 10,339.4 R 10,653.3
1995	379.8	R 5.2 R 5.8	99.5	4.2 1.6	NA	NA	0.0	103.7	0.3	0.5 0.5	0.0	R 110.3	R -210.7	-3.2 -3.5	R 10,800.2 R 11,572.2
1996	375.7 392.0	R 3.3 R 6.1	98.8	1.6	NA	NA	0.0	100.4	0.4	0.5	0.0 R 0.3 R 0.3	R 104.9 R 113.6	R -156.8	-3.5	R 11,572.2
1997 1998	392.0 405.8	R49	102.6 93.7	3.7 5.5	NA NA	NA NA	0.0 0.0	106.3 99.1	0.5 0.5	0.5 R 0.5	Низ	R 105.3	R -163 1	-2.0 2.5	R 11,972.4 R 12,151.6
1999 2000	384.1	R 3.8 R 2.8	78.1 81.5	4.7 5.4	NA	NA	0.0	82.9 86.9	0.6 0.6	0.6 0.5	R 1.1 R 1.7	R 88.9 R 92.5	R -205.6	0.6	R 11,778.9 R 12,133.2
2000 2001	391.7 398.5	H 2.8 R 4.1	81.5 70.7	5.4 5.5	NA 0.1	NA NA	0.0 0.0	86.9 76.3	0.6 0.6	0.5	H 1.7	H 92.5 R 85.6	H -216.4 R -206.7	-0.1 (s)	H 12,133.2 B 11 027 0
2002	371.9	R 3 8	81.3	2.4	0.2	NA	0.0	84.0	0.7	0.5	R 9.1	R 98 1	R -172.3	-0.7	R 11,927.0 R 12,216.7
2003	348.5	R 3.1 R 4.4	78.9	1.9	0.2	NA	0.0	81.1	0.9	0.5	R 8.8	R 94.3 R 94.2	R -195.4	-0.7	H 12 006 8
2004 2005	421.7 399.0	R45	74.8 80.2	2.3 1.4	0.4 1.3	NA NA	0.0 (s)	77.5 82.8	1.0 1.2	0.5 0.5 0.5 0.5 0.5	R 14.5	R 103.5	R -233.4	-0.7 -0.7	R 12,047.5 R 11,505.2
2006	430.6	R 2.3 R 5.6	77.7	37.6	3.7 5.0	NA	(s) (s) 0.1	119.0	1.3 1.5	0.5 0.5	R 22.8	R 145 8	R -206.7 R -172.3 R -195.4 R -295.1 R -238.4 R -184.7 R -51.7 R -16.9 R 54.3 R 59.4 0.1 R -39.7 R -87.8	-0.7	R 11,632.2 R 11,711.4
2007 2008	429.6 425.7	H 5.6 R 3.5	84.5 100.0	53.6 63.8	5.0 4.3	NA NA	0.1 10.6	143.2 178.7	1.5	0.5	H 30.7 R 55 4	R 181.5 R 239.8	H -51.7 R -160	-0.8 -0.2	H 11,711.4 R 11 153 0
2009	434.0	R 3.5 R 4.3	64.2	66.7	4.6	NA	9.3	144.8	1.7 2.1 2.3 2.5	0.5 R 0.5 R 0.6 R 0.8 R 1.2 R 1.5	P 68.3	R 210 2	R 54.3	0.4	R 11,153.0 R 10,745.6
2010	432.0	R 4.3 R 1.9	85.4 91.0	86.0 102.1	3.7	NA	11.5	186.6 218.9	2.3	R 0.6	R 89.6	R 283.4 R 328.3	R 59.4	(s) -0.8	R 11,423.4 R 11,627.7
2011 2012	414.9 402.8	R 2 0	91.0 89.8	102.1 95.7	12.5 15.5	0.0 0.0	13.2 15.4	218.9	2.5 2.5	R 1 2	R 104.2	R 332 U	0.1 R -39 7	-0.8 -0.8	R 11,627.7
2013	400.4	R 16	89.8 95.3	95.7 95.6	15.5 29.3	0.0	15.4 11.5	216.4 231.7	2.5 2.5	R 1.5	R 122.4	R 359 7	R 87.8	-0.8 -2.3	R 12,398.0
2014 2015	410.9 411.6	R 1.3 R 3.3	94.8 81.4	105.6 109.2	25.6 28.2	0.0 0.0	16.6 18.7	242.7 237.5	2.5 2.5	R 2.1 R 2.7 R 4.4 R 9.7 R 14.0 R 18.9 R 35.2 R 59.3	R 4.1 R 9.1 R 8.8 R 10.7 R 14.5 R 22.8 R 30.7 R 55.3 R 89.6 R 104.2 R 109.9 R 122.4 R 136.5 R 136.5	R 385.1 R 398.9	R 120.9 R 43.1	-1.4 -0.9	R 11,657.5 R 12,398.0 R 12,360.2 R 12,477.1
2016	440.1	R46	80.9 80.5	121.6	42.4 37.2	0.0	19.3	264 1	2.5 2.5 2.5	R 4.4	R 196.3 R 228.8	R 471 9	R 78.0 R 132.5 R 48.7 R 105.8 R 128.0 R 130.7	-6.6	R 12,630.4 R 12,738.5
2017	403.5	R 3.6 R 3.8	80.5	123.1	37.2	0.0	19.6	260.4	2.5	R 9.7	R 228.8	R 505.0	R 132.5	-19.1	H 12,738.5
2018 2019	430.6 431.2	R 5.0	86.7 80.9	124.5 127.6	42.2 38.3	0.0 0.0	18.8 16.2	272.2 R 263.1	2.5 2.5	R 18.9	R 258.3 R 285.3 R 315.4	R 550.8 R 574.8	R 105 8	15.9 -15.2	R 13,544.3 R 13,725.0
2020	432.9	R 3.7	80.9 R 79.5	127.6 111.0	34.1	0.0	16.2 12.6	n 237.1	2.5 2.5 2.5 2.5	R 35.2	R 315.4	H 594.0	R 128.0	-10.5	R 13,725.0 R 12,974.8
2021 2022	R 419.4 433.9	R 3.7 2.1	R 83.5 89.6	123.3 127.5	R 25.5 23.2	0.0 0.0	15.6 18.8	R 247.9 259.1	2.5 2.5	<sup>H</sup> 59.3 87.4	R 339.4 391.7	R 652.8 742.8	H 130.7 133.3	-8.3 -12.0	R 13,712.2 13,780.6
2022	400.8	۷.۱	0.60	127.5	20.2	0.0	10.0	200.1	2.0	07.4	331.7	142.0	100.0	-12.0	10,700.0

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Texas

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	1,067	2,313	24,381	73,297	10,842	91,841	22,542	72,395	295,299	0					35,726			
1970	1,154	3,032	32,365	151,223	24,430	141,393	14,042	154,372	517,824	0					95,735			
1980 1990	3,251 4,167	2,661 2,594	71,387 67.188	216,760 326,112	30,934 95,903	180,997 205,402	64,410 27,209	293,865 240.278	858,353 962.091	0					179,430 237,415			
2000	4,167	2,844	109,700	457,553	102,717	249,819	21,408	253,553	1,194,750	0					318,263			
2005	4,094	2,056	127,557	447,915	80,382	278,350	25,997	276,136	1,236,337	0					334,258			
2006	4,102	1,991	141,107	446,844	81,452	285,419	27,903	279,585	1,262,311	0					342,724			
2007	1,868	2,065	144,300	465,349	75,409	290,606	32,625	238,730	1,247,018	0					343,829			
2008 2009	1,817	2,124	141,099	370,537	72,516	288,139	28,718	196,493	1,097,501	0					347,815			
2009	847 963	2,015 2,240	130,311 140,375	382,871 R 460,379	61,808 45,595	288,646 293,814	25,272 31,123	188,674 203.381	1,077,581 R 1,174,668	0					345,351 358,458			
2010	968	2,253	158,486	R 456,735	46,157	289,923	31,123	202,624	R 1,185,072	0					376,065			
2012	958	2,347	160,384	R 489,075	45,480	292,573	21,321	204,521	R 1,213,353	0					365,104			
2013	1,011	2,612	165,932	R 534,923	47,262	301,856	20,468	219,337	R 1,289,778	0					378,817			
2014	1,304	2,513	189,668	R 504,004	47,670	314,632	21,214	201,028	R 1,278,217	0					389,670			
2015	958	2,500	176,164	R 553,319	52,275	329,038	20,455	203,002	R 1,334,254	0					392,337			
2016 2017	673 630	2,496 2,505	177,045 181,383	R 563,895 R 583,256	53,026 52,623	337,977 340,217	30,436 30,910	R 207,717 R 211,805	R 1,370,095 R 1,400,193	0					398,662 401,880			
2017	530	2,505	197,813	R 693,032	53,240	340,217	25,363	R 212,184	R 1,527,864	1					424,419			
2019	503	2,891	199,374	R 708,700	56,664	348,683	26,344	R 211,873	R 1,551,638	1					429,343			
2020	296	R 2,943	169,007	R 705,769	34,988	300,985	21,779	R 197,426	R 1,429,955	1					426,863			
2021	258	R 3,046	R 182,932	R 772,935	44,176	332,122	R 28,188	R 202,107	R 1,562,459	1					435,628			
2022	273	3,084	187,556	736,406	49,813	342,083	28,884	192,064	1,536,805	(s)					475,401			
									Trillion	Btu								
1960	25.0	2,393.9	142.0	278.1	58.6	482.4	141.7	432.8	1,535.7	0.0	38.3	NA	NA	NA	121.9	4,114.8	R 245.8	R 4,360.6
1970	30.8	3,113.6	188.5	556.2	135.9	742.7	88.3	897.6	2,609.4	0.0	51.2	NA		NA	326.6	6,131.6	_ <sup>R</sup> 669.1	R 6,800.7
1980	63.4	2,743.2	415.8	796.6	173.3	950.8	404.9	1,699.8	4,441.2	0.0	54.8	NA		NA	612.2	7,914.8	R 1,302.4	R 9,217.2
1990	61.8	2,703.8	391.4	1,166.8	542.1	1,079.0	171.1	1,402.4	4,752.7	0.0	92.7	(s)	0.2	0.4	810.1	8,422.8	R 1,657.2	R 10,080.0
2000 2005	73.3 70.4	2,939.4 2,113.7	638.3 742.1	1,632.4 1,583.6	582.4 455.8	1,299.3 1,445.2	134.6 163.4	1,453.4 1,581.5	5,740.4 5,971.6	0.0	80.6 77.4	0.0 (s)	0.6 1.2	0.5 0.5	1,085.9 1,140.5	9,920.7 9,376.6	R 2,212.4 R 2,128.6	R 12,133.2 R 11,505.2
2005	70.4	2,113.7	818.8	1,562.0	455.6	1,445.2	175.4	1,607.3	6,105.3	0.0	77.4 75.0	(s)	1.3	0.5	1,169.4	9,469.6	R 2,162.6	R 11,632.2
2007	40.4	2,118.7	834.6	1,621.8	427.6	1,494.3	205.1	1,373.8	5,957.3	0.0	80.3	0.1	1.5	0.5	1,173.1	9,376.9	R 2,334.5	R 11,711.4
2008	39.3	2,180.8	815.6	1,288.0	411.2	1,471.2	180.5	1,130.8	5,297.3	0.0	95.2	10.6		0.5	1,186.7	8,816.4	R 2,336.6	R 11,153.0
2009	17.4	2,065.3	752.8	1,303.5	350.5	1,469.2	158.9	1,082.3	5,117.2	0.0	59.7	9.3		R 0.5	1,178.3	R 8,449.9	R 2,298.2	R 10,748.1
2010	14.1	2,314.3	810.7	R 1,554.6	258.5	1,488.8	195.7	1,167.4	R 5,475.6	0.0	80.3	11.5		R 0.6	1,223.1	R 9,121.8	R 2,303.1	R 11,424.9
2011	19.8	2,316.6	914.5	R 1,495.2	261.7	1,467.9	195.8	1,161.7	R 5,496.8	0.0	84.7	13.2		R 0.7 R 0.8	1,283.1	R 9,217.4 R 9,387.2	R 2,411.1 R 2,268.8	R 11,628.5 R 11.656.1
2012 2013	20.1 21.9	2,413.7 2.676.1	924.9 956.3	R 1,633.2 R 1,805.4	257.9 268.0	1,481.0 1,527.4	134.0 128.7	1,176.8 1.258.5	R 5,607.8 R 5,944.2	0.0	81.2 87.1	15.4 11.5		<sup>11</sup> 0.8 R 1.0	1,245.7 1,292.5	R 10,036.8	R 2,359.0	<sup>11</sup> ,656.1 R 12.395.8
2013	27.7	2,598.6	1,093.1	R 1,682.9	270.3	1,591.7	133.4	1,160.2	R 5,931.6	0.0	84.3	16.6		R 1.1	1,329.6	R 9.992.1	R 2,371.4	R 12,363.5
2015	20.6	2,588.1	1,015.1	R 1,880.7	296.4	1,663.9	128.6	1,173.8	R 6,158.6	0.0	R 70.5	18.7	2.5	R 1.3	1,338.7	R 10,199.1	R 2,280.2	R 12,479.3
2016	13.8	2,571.1	1,019.3	R 1,887.4	300.7	1,708.5	191.3	R 1,226.5	R 6,333.7	0.0	71.9	19.3		R 1.9	1,360.2	R 10,374.5	R 2,253.5	R 12,628.1
2017	12.5	2,576.1	1,044.2	R 1,936.0	298.4	1,719.1	194.3	R 1,245.7	R 6,437.8	(s)	73.0	19.6		R 2.2	1,371.2	R 10,495.2	R 2,244.8	R 12,740.0
2018	10.8	2,907.2	1,139.2	R 2,276.5	301.9	1,749.9	159.5	R 1,246.9	R 6,873.7	(s)	78.9	18.8		R 3.0	1,448.1	R 11,343.3	R 2,196.3	R 13,539.6
2019	9.9	2,966.5	1,148.2	R 2,352.7	321.3	1,761.5	165.6	R 1,254.2	R 7,003.6	(s)	74.5	16.2		R 4.0	1,464.9	R 11,542.3	R 2,180.6	R 13,722.8
2020 2021	6.1 6.0	R 3,011.5 R 3,114.1	972.8 R 1,054.4	R 2,321.2 R 2,567.0	198.4 250.5	1,520.6 1,677.2	136.9 177.2	R 1,169.2 R 1,201.0	R 6,319.1 R 6,927.4	(s)	R 74.3 R 77.6	12.6 15.6		R 6.1 R 8.4	1,456.5 1,486.4	R 10,887.9 R 11,636.7	R 2,087.1 R 2,080.3	R 12,975.0 R 13,717.0
2021	6.3	3,143.1	1,054.4	2,299.3	250.5	1,677.2	177.2	1,154.4	6,726.2	(s) (s)	80.5	18.8		10.9	1,486.4	11,636.7	2,080.3	13,717.0
	3.3	0,170.1	1,007.0	2,200.0	202.4	1,121.2	101.0	1,104.4	0,720.2	(3)	30.5	10.0	2.5	10.3	1,022.1	11,007.7	2,179.0	10,700.7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Texas

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>©</sup>	Kerosene	Total				Electricity <sup>g</sup>	_	Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousa	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total e,h
1960	10	172	96	9 098	6	9 201				11 316			
1960 1965 1970 1975	3	172 183 232	96 71	9,098 11,778	7	9,201 11,856 14,062				11,316 18,745 32,591 40,892			
1970	i	232	134	13,894	33	14,062				32,591			
1975	0	232	270 8 27	10,304	39	10.613				40,892			
1980	(s) 2	225 213	8	5,533 6,553	198	5,739 6,693 5,562 3,023				5/ 1/8			
1985 1990	2	213 211	2/	6,553	112 26 22	6,693				71,740 82,548 92,831			
1990	0	206	6	5,534 2,995	26	5,562				82,548 92,831			
2000	1	194	3	9,705	30	9,738				116,895			
2005	i	185	5	7,959	15	7,979				126.562			
2006	(s)	166	(s) (s)	6.055	15 7	6.062				400.040			
2007	(s)	200	(s)	6,613	9	6,622 6,272				126,843 124,921 128,240 129,815 137,161 145,654 137,412 140,273			
2008	0	193	(s) 2	6,263	8	6,272				128,240			
2009 2010	0	192 226	2	5,359 5,337	3	5,364 5,343 4,793				129,815			
2010	0	200	l 2	5,337 4,787	5	5,343				137,161			
2011	0	170	2	3,821	1	3 824				143,034			
2012 2013	Õ	170 207	(s)	4,560	i	3,824 4,561				140.273			
2014	Ö	235 211	1	4,828	2	4,831				140,900			
2015	0		2	4,966	1	4,831 4,969				140,900 145,652 145,973			
2016	0	175	1	5,099	1	5 101				145,973			
2017 2018	0	164 227	1	4,155	1	4,157 4,345 5,626				144,242 157,268 155,481			
2018	0	227	1	4,343 5,624	1 (s)	4,345				157,268			
2020	0	204	(s)	4,188	(5)	4,188				156,461			
2021	0	211	1	3,347	i	3,349				156,415 155,075			
2022	Ö	233	1	5,030	1	5,032				170,596			
							Trillion Btu						
1960	0.2	177.7	0.6	34.9	(s)	35.5	14.1	NA	NA	38.6	266.1	R 77.8	R 343.9
1965 1970 1975	0.1	189.3 238.5 239.2	0.4	34.9 45.2 53.4	(s)	35.5 45.7	9.4 6.4	NA	NA	64.0	308.4	R 125.8	R 434.2
1970	(s)	238.5	0.8	53.4	0.2	54.3	6.4	NA	NA	111.2	410.4	H 227.8	H 638.2
1975	0.0	239.2	1.6	39.6	0.2	41.4	7.6	NA	NA	139.5	427.7	R 77.8 R 125.8 R 227.8 R 284.9 R 415.0 R 497.4 R 576.2 R 645.6 R 812.6 R 806.0 R 800.4 R 848.2 R 863.9 R 881.3 R 933.8 R 853.9	H 712.5
1980 1985 1990 1995	(s)	231.7 221.0	(s) 0.2	21.3 25.2	1.1 0.6	22.4 26.0	12.9 26.4	NA NA	NA NA	195.1 244.8 281.7 316.7 398.8 431.8 432.8 426.2	462.2 518.1	T 415.0	R 1 015 C
1985	(s) 0.1	221.0		25.2	0.6	26.0	20.4	0.2	NA 0.4	244.8	518.1	R 576 2	11,015.6 R 1 121.5
1995	0.0	219.5 215.2	(s) (s)	21.3 11.5	0.1	21.4 11.7	22.1 13.8	0.2	0.4 0.5	316.7	545.3 558.0	R 645 6	R 1 203 6
2000	(s)	200.0	(s)	37.3	0.2	37.5 30.7	10.7	0.3	0.5	398.8	647.9	R 812.6	R 1,460.5
2005	(s)	190.3	(s)	30.6	0.1	30.7	18.3	0.7	0.5	431.8	672.3	R 806.0	R 1,478.2
2006 2007	(s)	170.6 205.0	(s) (s)	23.3 25.4	(s) 0.1	23.3 25.5	16.2 17.9	0.8	0.5 0.5	432.8	R 644.1 676.1	R 800.4	R 1,444.5
2007	(s)	205.0	(s)	25.4		25.5	17.9	0.9	0.5	426.2	676.1	H 848.2	H 1,524.2
2008	0.0	197.9	(s)	24.1	(s)	24.1	20.1 12.2	1.1	0.5 B 0.5	437.6	681.2 B 674.5	11 861.5 B occ o	11,542.7 B 1 500.4
2009 2010	0.0 0.0	196.9 233.9	(s) (s)	20.6 20.5	(s) (s)	20.6 20.5	13.1	1.4 1.5	R 0.5 R 0.6	442.9 468.0	074.5 R 737.6	603.9 R 881.3	1,536.4 R 1 618 0
2010	0.0	205.9		18.4	(8)	20.5 18.4	10.1	1.5	R 0.6	400.0 497.0	R 737.0	R 933 8	R 1,616.9
2011 2012	0.0	205.6 174.8	(s) (s)	18.4 14.7	(s)	14.7	12.7 10.6	1.5 1.6	R 0.6 R 0.7	468.8	R 671.3	R 853.9	R 1,525.2
2013	0.0	212.3	(s)	17.5	(s)	18.4 14.7 17.5	13.9	1.6	H 0.8	478.6	R 724.6	R 873.5	R 1,598.1
2014 2015	0.0	242.5 218.8	(s)	18.5	(s)	18.6	14.0 2.8	1.6	R 0.9	437.6 442.9 468.0 497.0 468.8 478.6 480.7 497.0 498.1 492.2 536.6	681.2 R 674.5 R 737.6 R 735.7 R 671.3 R 724.6 R 758.3 R 740.3 R 763.4 R 681.9 R 793.3	R 857.5 R 846.5 R 825.2 R 805.7 R 813.9	R 1,615.8
2015	0.0	218.8	(s)	19.1	(s)	19.1	2.8	1.6	R 1.0	497.0	H 740.3	H 846.5	H 1,586.8
2016 2017	0.0	180.6 168.8	(s)	19.6	(s)	19.6	2.1 1.6	1.6	R 1.4 R 1.8	498.1	<sup>n</sup> 703.4	n 825.2	<sup>n</sup> 1,528.5
2017	0.0 0.0	168.8 233.4	(s) (s)	16.0 16.7	(\$)	16.0 16.7	1.6 2.6	1.6 1.6	11.8 R 2.4	492.2 536.6	., pp 1.9	" 805.7 R 813.0	1,487.6 R 1,607.2
2010	0.0	233.4	(S) (S)	21.6	(8)	21.6	2.0	1.6	Rgo	530.0 530.5	R 793.3	R 780 7	R 1,007.2
2020	0.0	209.2	(s)	16.1	(s)	16.1	R 1.5	1.6	R 5.0	533.7	R 767.0	R 764.8	R 1,531 8
2019 2020 2021	0.0 0.0	209.2 R 215.9	(s) (s) (s)	16.1 12.9	(s)	16.1 12.9 19.3	2.7 R 1.5 R 1.8	1.6	R 5.0 R 7.0	530.5 533.7 529.1	R 793.6 R 767.0 R 768.2	R 789.7 R 764.8 R 740.6	R 343.9 R 438.2 R 712.5 R 712.5 R 1,015.6 R 1,121.5 R 1,203.6 R 1,478.5 R 1,524.2 R 1,542.7 R 1,538.4 R 1,618.9 R 1,669.6 R 1,525.2 R 1,598.1 R 1,615.8 R 1,525.2 R 1,598.1 R 1,542.7 R 1,533.8 R 1,533.8 R 1,533.8 R 1,533.8
2022	0.0	237.1	(s)	19.3	(s)	19.3	2.2	1.6	9.4	582.1	851.4	781.9	1 633 4

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Texas

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total d	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	7	60 81	595	2,764	656	663	191	4,868	NA			NA	9,801			
1965 1970	3		440 830	3,578 4,221	788	711 692	64 78	5,581 9,423	NA NA			NA	14,804 22,869			
1975	0	146 117	1.669	3,130	3,603 4,192	687	677	10.355	NA NA			NA NA	33.884			
1980	1	169 152	2,842	1,681	3,251	3,299	2,569	10,355 13,642	NA			NA	44,062			
1985 1990	5 8	152 172	6,778 2,225	1,991 1,681	250 25	1,954 2,294	252 71	11,225 6,295	NA 0			NA (s)	60,150 70,781			
1995	Ö	210	2,669	910	25 46	164	(s)	3,789	Ŏ			(s)	80,354			
2000 2005	11 11	190 160	5,657 2,717	2,948 2,625	48 44	167 180	0	8,821 5,565	0			(s)	99,748 110,784			
2006	(s)	147	2,420	2,308	74	187	0	4,988	0			2	111,130			
2007	(s) 12	161	2,441	694	43	372	14	3,564	0			3	110,540			
2008 2009	12	167 167	2,282 3,348	2,258 1,777	38 34	361 310	4	4,947 5,473	0			3 5	113,638 118,535			
2010	11	189	2.494	2,348	23	326	14	5,206	ŏ			11	121,467			
2011 2012	11 10	184 161	4,600 4,168	1,801 1,804	19 9	300 303	44 24	6,763 6,308	0			22 35	128,214 133,105			
2012	9	174	3,424	1,804	5	315	29	5,726	0			55 54	136,516			
2014	8	185	3,219	2,094	13	303	9	5,639	0			54 73	139,432			
2015 2016	6	176 164	2,891 3,262	2,240 1,836	7 12	5,151 5,082	0	10,289 10,199	0			100 141	136,324 139,104			
2017	0	165	2,570	1,713	5	5,021	ó	9,308	2			133	137,486			
2018	0	214	1,991	2,478	5	5,074	0	9,547	1			189	143,525			
2019 2020	0	198 173	2,397 1,780	2,526 4,527	6 9	5,120 5,144	0 57	10,049 11,517	1			246 323	142,002 145,168			
2021	ŏ	181	R 2,758	5,499	6	5,187	0	R 13,450	i			400	147,843			
2022	0	197	3,089	3,223	6	5,502	0	11,821	(s)			424	160,719			
									llion Btu							
1960 1965	0.1 (s)	61.8 83.6	3.5 2.6	10.6 13.7	3.7 4.5	3.5 3.7	1.2 0.4	22.5 24.9	NA NA	0.3 0.2	NA NA	NA NA	33.4 50.5	118.1 159.2	R 67.4	R 185.5
1903	(s)	150.0	4.8	16.2	20.4	3.6	0.4	45.6	NA NA	0.2	NA NA	NA NA	78.0	273.8	R 99.3 R 159.8	R 258.6 R 433.6
1975	0.0	120.2	9.7	12.0	23.8	3.6	4.3	53.4	NA	0.1	NA	NA	115.6	289.3	H 236.1	H 525.4
1980 1985	(s) 0.1	173.7 157.7	16.6 39.5	6.5 7.6	18.4 1.4	17.3 10.3	16.2 1.6	74.9 60.4	NA NA	0.3 0.6	NA NA	NA NA	150.3 205.2	399.3 424.1	R 319.8 R 417.1	R 719.1 R 841.2
1990	0.2 0.0	179.6	13.0	6.5	0.1	12.0	0.4	32.0	0.0	2.5 1.9	(s) 0.1	(s)	241.5	455.8	R 494.0 R 558.8 R 693.4	R 949.9 R 1,073.7
1995	0.0	218.5	15.5 32.9	3.5	0.3	0.9 0.9	(s) 0.0	20.1 45.4	0.0 0.0	1.9	0.1 0.2	(s)	274.2 340.3	514.8 584.9	H 558.8	H 1,073.7 H 1,278.3
2000 2005	0.2 0.3	196.8 164.4	32.9 15.8	11.3 10.1	0.3 0.2	0.9	0.0	45.4 27.1	0.0	1.9 3.3	0.2	(s) (s)	378.0	573.6	H 705.5	H 1.279.1
2006	(s)	151.2	14.0	8.9	0.4	1.0	0.0	24.3	0.0	3.2	0.5	(s)	379.2	558.4	R 701 2	R 1 259 7
2007 2008	(s) 0.3	165.5 171.6	14.1 13.2	2.7 8.7	0.2 0.2	1.9 1.8	0.1 (s)	19.0 24.0	0.0 0.0	3.4 3.5 2.2	0.6 0.6	(s)	377.2 387.7	565.7 587.8	R 750.5 B 763.4	R 1,316.2 R 1,351.2
2009	0.4	171.5	19.3	6.8	0.2	1.6	(s)	28.0	0.0	2.2	0.7	R (S)	404.4	R 607.1	R 763.4 R 788.8	<sup>n</sup> 1.396.0
2010	0.3	195.0	14.4	9.0	0.1	1.7	0.1	25.3	0.0	2.2	0.8	R (s)	414.4	H 638.1	H 780.4	H 1.418.6
2011 2012	0.3 0.3	189.6 165.9	26.5 24.0	6.9 6.9	0.1 0.1	1.5 1.5	0.3 0.2	35.4 32.7	0.0 0.0	2.1 1.9	1.0 0.9	R 0.1 R 0.1	437.5 454.2	R 666.0 R 655.9	R 822.0 R 827.1	R 1,488.0 R 1,483.0
2013	0.2 0.2	178.1	19.7	7.5	(s) 0.1	1.6	0.2	29.0	0.0	2.2 2.3	0.9	n 0 2	465.8	n 676.5	R 850 1	T 1 526 6
2014	0.2	191.2	18.6	8.0		1.5	0.1 0.0	28.3	0.0 0.0	2.3 1.0	0.9 0.9	R 0.2 R 0.3	475.7	R 699.0 R 701.1	R 848.5 R 792.3	R 1,547.5 R 1,493.3
2015 2016	0.2 0.0	182.1 169.2	16.7 18.8	8.6 7.1	(s) 0.1	26.0 25.7		51.4 51.6	0.0	R 0.8	0.9	R <sub>0.5</sub>	465.1 474.6	R 697.9	R 786.3	H 1 484 2
2017	0.0	169.5	14.8	6.6	(s)	25.4	(s) 0.0	46.8	(s)	0.8	0.9	R 0.5	469.1	H 687.6	R 786.3 R 768.0	H 1 155 6
2018 2019	0.0 0.0	220.2 203.2	11.5 13.8	9.5 9.7	(s) (s)	25.6 25.9	0.0 0.0	46.7 49.4	(s) (s)	0.8 0.5	0.9 0.9	R 0.6 R 0.8	489.7 484.5	R 759.1 R 739.6	R 742.7 R 721.2	<sup>II</sup> 1,501.8 R 1 460.8
2020	0.0	176.6	10.2	17.4	0.1	26.0	0.4	54.0	(s)	0.3	0.9	R 1.1	495.3	R 728.4	R 709.8	H 1.438.2
2021	0.0	R 185.4	15.9	21.1	(s)	26.2	0.0	R 63.2	(s)	0.4	0.9	H 1.4	504.4	<sup>H</sup> 755.8	R 706.0	<sup>rt</sup> 1,461.8
2022	0.0	200.4	17.8	12.4	(s)	27.8	0.0	58.0	(s)	0.4	0.9	1.4	548.4	809.5	736.7	1,546.1

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Texas

					Petrol	eum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet	'		Thousand	d barrels	,		Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion :Wh	End use <sup>f,k</sup>	system energy losses <sup> </sup>	Total f,k
1960	1,031	2,029	10,118	59,411	3 798	4,615	66,692	144,635	0				NA	14,602			
1960 1965	1,136	2,098	8,519	89,166	3,798 2,563	1,879	106,935	209,061	ŏ				NA	23,685			
1970 1975	1,150	2,557 2,160	8,947	127,521	1,410 997	2,297	147,105	287,280	0				NA NA				
1975	3,720 3,250	2,163	15,301 20,250	143,075 208,898	470	11,070 16,029	164,810 287,243	335,253 532,890	0				NA NA				
1985	5,192	1,732 2,105	19,330	275,079	4,704	5,969 1,273	172,257	477,338	ő				NA	81,235			
1990	4,157	2,105	17,592	318,417	4,336	1,273	237,434	579,052	0				(s)	84,087			
1995 2000	4,255 4,490	2,188 2,397	19,960 21,192	410,810 444,667	3,944 2,576	2,459 401	235,068 250,873	672,241 719,710	0				(s) (s)	90,093 101,588			
2005	4,082	1.628	20,031	436,864	5,766	3,537	273,886	740,083	0				(s)	96,841			
2006	4,102	1,591	20,274	437,961	6,096	3,923	277,372	745,627	Ö				`ó	104,689			
2007	1,868	1,612	22,582	457,680	4,580	3,121	236,494	724,457	0				0				
2008 2009	1,806 833	1,653 1,537	26,483 19,793	361,353 375,233	3,867 3,802	3,620 3,408	194,458 186,878	589,782 589,113	0				0	105,868 96,931			
2010	952	1,743	22,336	H 452.543	5,750	3,280	200,064	H 683 974	ő				0				
2011	956	1.781	30,405	R 450 029	6,035	4.548	199,289	R 690,306 R 726,642	0				0	102,129			
2012	947	1,875 1,934	34,173	R 483,327	5,600	2,162	201,380	H 726,642	0				0				
2013 2014	1,002 1,296	1,934	32,751 39,585	R 528,232 R 496,687	6,098 4,489	1,626 1,860	216,011 197,550	R 784,718	0				0	101,000			
2015	951	2,023	27,448	R 545,690	3,682	1,242	199 375	R 740,171 R 777,438	ő				0				
2016	673	2,067	29,924	H 556.484	3,663	2.008	R 204 261	H 796 340	0				0	113,403			
2017	630	2,090	30,594	R 576,973	3,703	2,516	R 208,524	R 822,309	0				(s)				
2018 2019	530 503	2,267 2,290	33,999 32,162	R 685,980 R 700,307	3,786 3,786	2,347 1,961	R 208,968 R 208,672	R 935,080 R 946,887	Ü				1 2	123,439 131,674			
2020	296	R 2 365	23.754	R 696,935	3,828	1,583	R 194 682	R 920.783	ŏ				4	125,107			
2021	258	<sup>n</sup> 2,426	30,529	R 763,995	3,784	2,336	R 196,440	H 997,084	0				3	132,530			
2022	273	2,439	30,856	727,845	3,950	2,393	186,393	951,438	0				9	143,906			
									Trillion Bt	u							
1960	24.4	2,100.3	58.9	224.8	19.9	29.0	401.8	734.5	0.0	23.9	NA	NA	NA	49.8	2,933.0	R 100.5	R 3,033.4
1965 1970	29.0 30.7	2,175.3 2,626.3	49.6 52.1	337.5 465.2	13.5 7.4	11.8 14.4	630.4 857.1	1,042.9 1,396.2	0.0		NA NA	NA NA	NA NA		3,358.7 4,235.3	R 158.9	R 3,517.7 R 4,516.7
1975	77.7	2,020.3	89.1	513.5	7.4 5.2	69.6	959.6	1,637.1	R (s)	47.2	NA NA	NA NA	NA NA		4,172.6	R 281.5 R 381.2	R 4,553.7
1980	63.3	2,229.7	118.0	766.4	5.2 2.5	100.8	1,662.3	2,649.9	Ô.Ó	41.6	NA	NA	NA	266.8	5,251.2	H 567.5	<sup>n</sup> 5.818.8
1985	85.4	1,799.3	112.6	974.3	24.7	37.5	1,016.7	2,165.8	0.0		(s)	NA	ŅĄ		4,376.5	R 563.3	R 4,939.8
1990 1995	61.5 63.7	2,194.1 2,280.6	102.5 116.2	1,137.2 1,474.6	22.8 20.5	8.0 15.5	1,386.0	2,656.5 2,996.0	0.0 0.0		(s) 0.0	0.0 0.0	(s) (s)	286.9 307.4	5,266.5 5,731.1	R 586.9 R 626.6	R 5,853.4 R 6,357.7
2000	73.1	2,477.4	123.3	1,582.9	13.4	2.5	1,369.3 1,437.8	3,159.9	0.0		0.0	0.0	(s)		6,125.0	R 706 2	R 6,831.2
2005	70.1	1,673.6	116.5	1,541.1	29.9	22.2	1,568.4	3,278.2	0.0	55.8	(s)	0.0	(s)	330.4	5,408.1	R 616.7	H 6.024.8
2006	70.9	1,632.3	117.7	1,527.9	31.6	24.7	1,594.4	3,296.2	0.0		(s)	0.0	0.0		5,412.2	R 660.6 R 735.3	R 6,072.8
2007 2008	40.4 39.0	1,654.3 1,696.9	130.6 153.1	1,592.4 1,252.8	23.5 19.7	19.6 22.8	1,360.8 1,118.9	3,127.0 2,567.2	0.0 0.0		0.1 10.6	0.0 0.0	0.0		5,250.2 4,746.5	R 711.2	R 5,985.5 R 5,457.7
2009	17.1	1,574.6	114.3	_ 1,274.2	19.4	21.4	1,071.8	2,507.2	0.0		9.3	0.0	0.0	330.7	4,740.3	R 645.0	R 5,123.2
2010	13.8	1,800.5	129.0	R 1,524.5	19.4 29.1	20.6	1,147.9	2,501.1 R 2,851.1	0.0	65.0	11.5	0.0	0.0	340.4	4,478.1 R 5,082.3	R 645.0 R 640.9	H 5,723.2
2011	19.5	1,831.2	175.4	R 1,469.4	30.6	28.6	1,142.2	H 2.846.2	0.0	69.9	13.2	0.0	0.0	348.5	H 5.128.4	R 654.8	R 5,783.2
2012 2013	19.8 21.6	1,928.3 1,981.1	197.1 188.7	R 1,611.1 R 1,779.7	28.3 30.9	13.6 10.2	1,158.4 1,239.0	R 3,008.5 R 3,248.5	0.0		15.4 11.5	0.0 0.0	0.0		R 5,363.3 R 5,681.8	R 587.4 R 635.0	R 5,950.7 R 6,316.7
2013	27.5	2,055.9	228.1	H 1 654 8	22.7	11.7	1,139.5	R 3,056.9	0.0		16.6	0.0	0.0		R 5,597.4	R 664 3	R 6 261 8
2015	20.4	2,094.8	158.2	<sup>rt</sup> 1.851.4	18.6	7.8	1.152.2	H 3.188.3	0.0	66.7	18.7	0.0	0.0	375.9	H 5,764.8	R 640.4 R 641.0	H 6,405.2
2016	13.8	2,129.2	172.3	H 1.859.0	18.5	12.6	R 1 206 0	R 3.268.3	0.0	69.0	19.3	0.0	0.0	386.9	H 5,886.5	R 641.0	H 6.527.5
2017 2018	12.5 10.8	2,149.1 2,330.5	176.1 195.8	R 1,911.9 R 2,249.4	18.7 19.1	15.8 14.8	R 1,226.3 R 1,227.8	R 3,348.9 R 3,706.9	0.0 0.0		19.6 18.8	0.0 0.0	(s) (s)	409.3 421.2	R 6,010.0 R 6,563.6	R 670.1 R 638.8	R 6,680.2 R 7,202.4
2018	9.9	2 3/0 2	185.2	H 2 320 5	19.1	12.3	H 1 225 2	H 3.772.4	0.0		16.2	0.0	(S)	449.3	H 6.668.3	H 668.7	R 7.337.1
2020	6.1	R 2.420.2	136.7	R 2 287 3	19.3	10.0	R 1 152 a	R 3,606.2	0.0	72.4	12.6 15.6	0.0	(s)	426.9	R 6.543.7	R 611.7	R 7,155.4
2021	6.0	<sup>R</sup> 2,480.2	176.0	112,532.7	19.1	14.7	H 1,169.0	<sup>rt</sup> 3,911.5	0.0	75.4	15.6	0.0	(s)	452.2	R 6,939.6	R 632.9	<sup>H</sup> 7,572.4
2022	6.3	2,485.5	177.9	2,266.5	19.9	15.0	1,122.2	3,601.6	0.0	77.9	18.8	0.0	(s)	491.0	6,678.9	659.6	7,338.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Texas

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	18	52	3,261	13,571	2,024	10,842	1,780	87,381	17,736	136,595	8			
1965	4	52 68 96	3.457	15,810	2,024 4,588	15,365	1,814	104,577	12,346	157,957	4			
1970 1975	2	96	2,007	22,454	5,587	24,430	1,623	139,292	11,667 25,049	207,059	0			
980	0	82 105	1,312 1,264	37,391 48,286	4,969 649	27,308 30,934	1,738 1,909	173,854 177,228	45,812	271,622 306,082	0			
985	ŏ	92	1.317	53.074	609	74,500	1,738	198,761	21,610	351.609	ŏ			
990	0	106 82	838	47,369	479	95,903	1,955	198,773	25,865	371.182	0			
995	0	82	645	64,957	322	83,002	1,865	209,319	20,024	380,135	0			
2000 2005	0	63 83 87	609 511	82,848 104,804	234 468	102,717 80,382	1,992 1,681	247,076 272,404	21,007 22,460	456,482 482,710	30 71			
006	0	ია 87	494	118,413	520	81,452	1,638	272,404 279,135	23,981	505,633	62			
2007	ő	92	492	119,276	362	75,409	1,691	285,654	29,491	512 375	67			
8008	Ō	111	418	112,333 107,168	662	72,516	1,570	283,911	25,090	496,501 477,631	69			
2009	0	119	347	107,168	502	61,808	1,411	284,533	21,861	477,631	71			
2010	0	82	622	115,544	152	45,595	2,667	287,738	27,828	480,145 483,210	74			
2011	0	88	676	123,477	118	46,157	2,637	283,589	26,556	483,210	68 70			
2012 2013	0	141	693	122,040 129,756	123	45,480 47,262	2,438 2,668	286,670	19,135	476,579	70 61			
2014	0	297 105	651 451	146,862	179 394	47,670	3,012	295,443 309,840	18,813 19,345	494,772 527,575	172			
015	ŏ	89	384	145.823	423	52,275	3 235	320,204	19.214	541.558	180			
016	0	89 86	407 462	143,858 148,219	475	53,026 52,623	R 3,036 R 2,814	329,232	28,421 28,394	R 558 455	182 182			
017	0	86	462	148,219	415	52,623	R 2,814	331,492	28,394	R 564,419	182			
018	0	120	426	161,822	231	53,240	R 2,784 R 2,779	337,371	23,016	R 578,891	187			
2019 2020	0	175 201	415	164,815 143,473	242 119	56,664 34,988	R 2,779	339,778 292,013	24,382 20,139	R 589,076 R 493,467	187 174			
2020	0	228	384 385	R 149,643	94	44,176	R 2,534	323,151	25,852	R 548,576	180			
2022	ŏ	216	398	153,609	307	49,813	2,718	332,631	26,491	568,514	180			
							Tri	llion Btu						
1960	0.3	54.1	16.5	79.1	7.8	58.6	10.8	459.0	111.5	743.2	(s)	797.6	0.1	797.7
1965	0.1	70.0	17.5	92.1	17.6	84.3	11.0	549.3	77.6	849.5	(s)	919.6	(s) 0.0	919.6
1970 1975	(s) (s)	98.8 84.6	10.1 6.6	130.8 217.8	21.5 19.1	135.9 152.7	9.8 10.5	731.7 913.3	73.3 157.5	1,113.2 1,477.5	0.ó 0.0	1,212.1 1,562.0	0.0	1,212.1 1,562.0
980	0.0	108.1	6.4	281.3	25	173.3	11.6	931.0	288.0	1,694.0	0.0	1,802.1	0.0	1,802.1
985	0.0	95.6	6.6	309.2	2.5 2.3	420.5	10.5	1,044.1	135.9	1,929.2	0.0	2,027.5	0.0	2,027.
990	0.0	110.5	4.2	275.9	1.8	542.1	11.9	1,044.2	162.6	2.042.8	0.0	2,155.2	0.0	2,155.2
995	0.0	85.7	3.3	378.0	1.2	470.5	11.3	1,089.3	125.9	2,079.5 2,497.7	0.0	2.165.2	0.0	2.165.2
000	0.0	65.2	3.1	482.1	0.9	582.4	12.1	1,285.0	132.1	2,497.7	0.1	2,562.9	0.2	2,563.
005 006	0.0 0.0	85.4 89.4	2.6 2.5	609.8 687.2	1.8 2.0	455.8 461.8	10.2 9.9	1,414.3 1.447.3	141.2 150.8	2,635.6 2,761.5	0.2 0.2	2,722.5 2.854.8	R 0.4 0.4	2,723.0
007	0.0	93.9	2.5 2.5	689.9	1.4	427.6	10.3	1,447.3	185.4	2,785.8	0.2	2,885.0	0.4	2,855.2 2,885.5
2008	0.0	114.4	2.1	649.3	2.5	411.2	9.5	1,449.7	157.7	2,682.0	0.2	2,801.0	0.5	2,801.4
009	0.0	122.4 84.9	1.8	619.1	1.9	350.5	8.6	1 448 3	137 4	2.567.5	0.2	2.690.1	0.5 0.5 R 0.4	2,690.0
009	0.0		3.1	619.1 667.3	0.6	258.5	8.6 16.2	1,458.0	175.0	2,567.5 2,578.6	0.2 0.3	2,690.1 2,663.7	_ 0.5	2,690.0 2,664.2
011	0.0	90.2	3.4	712.5	0.5	261.7	16.0	1,435.8	167.0	2 596 8	0.2	2.687.2	H 0.4	2.687.
012	0.0	144.6	3.5 3.3	703.8	0.5	257.9	14.8 16.2	1,451.1	120.3 118.3	2,551.9 2,649.1	0.2	2,696.7 2,954.0	R 0.4	2,697.2 2,954.4
2013 2014	0.0 0.0	304.6 109.0	3.3 2.3	747.8 846.4	0.7 1.5	268.0 270.3	16.2 18.3	1,494.9 1,567.5	118.3 121.6	2,649.1 2,827.8	0.2 0.6	2,954.0 2,937.4	0.4 R 1.0	2,954.4 R 2,938.5
014	0.0	92.4	2.3 1.9	846.4 840.2	1.5	270.3 296.4	19.6	1,567.5	121.6	2,827.8 2,899.9	0.6	2,937.4 2,992.9	H <sub>1</sub> 0	H 2 994 (
2016	0.0	92.1	2.1	828.2	1.8	300.7	R 18.4	1,664.3	178.7	R 2 994 1	0.6	R 3 086 8	R 1 0	R 2 097 9
2017	0.0	88.8	2.3	853.3	1.6	298.4	R 18.4 R 17.1	1,675.0	178.5	H 3,026.2	0.6	R 3.115.6	H 1.0	H 3 116
2018	0.0	123.1	2.2	931.9	0.9	301.9	R 16.9	1,705.1	144.7	H 3,103.5	0.6	H 3,227.3	R 1.0	n 3 228 1
2019	0.0	179.9 R 205.4	2.1	949.2	0.9	321.3	16.9	1,716.6	153.3	3,160.2	0.6	3 340 7	R 0.9	H 3 3/11.
2020	0.0	n 205.4	1.9	825.8 B 860.5	0.5	198.4	14.3 B 45.4	1,475.2	126.6	R 2,642.7	0.6	R 2,848.7	R 0.8 R 0.9	R 2,849.6 R 3,174.0
2021 2022	0.0 0.0	R 232.7 220.0	1.9 2.0	R 862.5 885.6	0.4 1.2	250.5 282.4	14.3 R 15.4 16.5	1,631.9 1,679.5	162.5 166.5	R 2,939.8 3,047.3	0.6 0.6	R 3,173.1 3,268.0	0.8	3,174.0
.022	0.0	220.0	۷.۵	000.0	1.2	202.4	10.3	1,079.5	100.5	0,047.0	0.0	3,200.0	0.0	5,200.0

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— —</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Texas

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	0	407	18	0	43	61	0	1,102		0	NA	NA	-175	
1965 1970	0	640	14	Ō	33	47	Ō	743 1,005		0	NA	NA	-82 -122	
1970 1975	9,044	1,062 1,353	45 75	0	104 1,740	149 1,815	0	1,005 1,922		0	NA NA	NA NA	-122 -343	
1980	45,351	1,430	1,126	ő	660	1,786	ŏ	979		ő	NA	ŇÄ	-581	
1985	71,818	1,198	775	0	881	1,657	0	1,401		0	0	0	-4	
1990 1995	87,248 88,358	1,134 1,207	721 534	0 2,460	254 62	975 3,055	15,859 36,151	1,794 1,703		0	(s) (s)	0	-63 -925 -16	
2000	97,076	1,578	2,147	2,836	401	5,385	37,556	829		ő	(s)	492	-16	
2005	101.233	1,466	317	2.726	29	3.071	38.232	1.333		0	`ó	4,237	-216	
2006 2007	99,661 102,916	1,464 1,474	242 241	2,926 2,068	55 46	3,224 2,355	41,264 40,955	662 1,644		0	0	6,671 9,006	-212 -243	
2008	101 840	1.440	193	1 844	6	2.043	40.727	1.039		0	Ö	16 225	-52 110	
2009	95,407 100,281	1,387	193 135 200	2,550 944	0	2,685 1,144	41,498 41,335	1,029		0	0	20,026 26,251	110	
2010 2011	100,281 110,098	1,349 1,454	200 265	944 1,124	0	1,144	41,335 39,648	1,262 563		0	8 29	26,251 30,548	-12 -224	 
2012	97,305	1,517	235 177	126	(s) 26	1,389 386	38,441	584		0	118	32,214	-223	
2013	102,487	1,423	177	233	0	410	38,315	480		0	161	35,874	-669	
2014 2015	101,658 86,779	1,425 1,624	200 207	0	0	200 207	39,287 39,355	386 956		0	280 399	39,982 44,803	-424 -253	 
2016	86,130	1.534	151	0	0	151	42,079	1,342		0	729	57,483	-1.948	
2017	93,488	1.370	137	Ö	Ö	137	38,581	1,060		Ö	2,187	67,008	-5,591	
2018 2019	75,899	1,644 1,787	110	0	0	110	41,186 41,298	1,125 1,474		0	3,204 4,362	75,637 83,557	4,668 -4,446	
2019	63,311 56,069	1,739	94 91	0	0	94 91	41,439	1,079		0	8,534	92,386	-3,066	
2020 2021	61,762	1,626	402	ő	Ö	402	40,211	1,082		Ö	14,918	99,420	-2,422	
2022	59,068	1,805	571	0	0	571	41,607	620		0	22,430	114,740	-3,524	
							Trillion Btu	Paa						R 425.1
1960 1965	0.0 0.0	421.6 663.2	0.1 0.1	0.0 0.0	0.3 0.2	0.4 0.3	0.0 0.0	R 3.8 R 2.5	0.0 0.9	0.0 0.0	NA NA	NA NA	-0.6 -0.3	R 666 7
1970	0.0	1.090.3	0.3	0.0	0.7	0.9	0.0	R 2.5 R 3.4 R 6.6	1.0	0.0	NA	NA	-0.3 -0.4 -1.2	R 1,095.2 R 1,515.2 R 2,166.6 R 2,322.1
1975	118.5	1,379.0	0.4	0.0	10.9	11.4	0.0	R 6.6	0.9	0.0	NA	NA	-1.2	R 1,515.2
1980 1985	670.8 1,063.4	1,482.9 1,240.7	6.6 4.5	0.0 0.0	4.2 5.5	10.7 10.1	0.0 0.0	R 3.3 R 4.8	0.8 3.1	0.0 0.0	NA 0.0	NA 0.0	-2.0 (s)	H 2,166.6 R 2 322 1
1990 1995	1,271.9	1,174.0 1,237.7	4.2 3.1	0.0	1.6	5.8 18.3	167.8	R 6.1 R 5.8	3.3 0.4	0.0	(s) (s)	0.0 _ 0.0	(s) -0.2 -3.2	R 2,628.3
1995	1,301.1	1,237.7	3.1	14.8	0.4	18.3	379.8	H 5.8 H 2.8	0.4	0.0	(s)	0.0 R 1.7	-3.2	H 2,940.0
2000 2005	1,474.9 1,557.5	1,610.7 1,507.4	12.5 1.8	17.1 15.6	2.5 0.2	32.1 17.6	391.7 399.0	R 4 5	0.9 2.7	0.0 0.0	(s) 0.0	R 14 5	-0.1 -0.7	R 2,628.3 R 2,940.0 R 3,514.7 R 3,502.5 R 3,516.7
2006	1.539.4	1.501.2	1.4	16.7	0.3	18.5	430.6	R 4.5 R 2.3	2.7 2.7	0.0	0.0	R 14.5 R 22.8	-0.7 -0.7	R 3,516.7
2007 2008	1,568.7 1,566.6	1,507.8 1,472.7	1.4 1.1	11.8	0.3	13.5 11.7	429.6 425.7	R 5.6 R 3.5 R 3.5	4.2	0.0	0.0 0.0	R 30.7 R 55.4 R 68.3	-0.8	R 3,559.3 R 3,540.3 R 3,422.3
2008	1,480.4	1,472.7	0.8	10.5 14.6	(s) 0.0	15.4	425.7 434.0	H 3.5	4.9 4.4	0.0 0.0	_0.0	R 68 3	-0.2 0.4	R 3 422 3
2010	1,553.9	1.375.3	1.2	5.4	0.0	6.6	432.0	H 4 3	5.1	0.0	R (s) R 0.1	н 89.6	(s) -0.8	R 3,466.8
2011	1,675.5	1,484.0	1.5	6.4	(s)	8.0	414.9	R 1.9	6.3	0.0	R 0.1	R 104.2	-0.8	R 3,694.1
2012 2013	1,478.7 1,575.5	1,550.5 1,455.1	1.4 1.0	0.7 1.3	0.2 0.0	2.2 2.4	402.8 400.4	R 2.0 R 1.6	8.5 8.1	0.0 0.0	R 0.4 R 0.5	R 109.9 R 122.4	-0.8 -2.3	R3,426.8 R3,466.8 R3,694.1 R3,554.3 R3,563.7 R3,580.0 R3,575.8 R3,483.6 R3,483.6
2014	1,558.3	1,462.0 1,675.7	1.2	0.0	0.0	1.2 1.2	410.9	R 1 3	10.5	0.0	R <sub>1</sub> ∩	R 136.4 R 152.9	-1.4 -0.9	B 3,580.0
2015	1,319.8	1,675.7	1.2 1.2	0.0	0.0	1.2	411.6	н з.з	10.8	0.0	R 1.4	R 152.9	-0.9	R 3,575.8
2016 2017	1,309.3 1,439.5	1,580.0 1,411.6	0.9 0.8	0.0 0.0	0.0 0.0	0.9 0.8	440.1 403.5	R 4.6 R 3.6	8.9 7.5	0.0 0.0	R 2.5 R 7.5	R 196.1 R 228.6	-6.6 -19.1	n 3,535.8 R 3 483 6
2018	1.178.6	1.689.4	0.6	0.0	0.0	0.6	430.6	H38	7.8	0.0	R 10.9	H 258 1	15.9	
2019 2020	982.8 866.7	1,828.8 1,773.4	0.5 0.5	0.0	0.0	0.5 0.5	431.2	R 5.0 R 3.7	6.4 5.2	0.0	H 14 9	R 285.1 R 315.2	-15.2 -10.5	R 3,539.6 R 3,415.6
2020 2021	866.7 962.4	1,773.4 1,661.6	0.5	0.0 0.0	0.0 0.0	0.5	432.9 R 419.4	H 3.7 R 3.7	5.2 5.8	0.0 0.0	R 29.1 R 50.9	H 315.2 R 339.2	-10.5 -8.3	<sup>H</sup> 3,415.6 R 3,436.0
2021	902.4 926.2	1,839.2	2.3 3.3	0.0	0.0	2.3 3.3	433.9	2.1	9.1	0.0	76.5	391.5	-0.3 -12.0	3,667.7
		, :												·

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

fossil fuels from which they are mostly derived, but should be counted only once in the total.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Utah

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	d barrels
1960	3,449	70	3,775	450	1,003	7,813	5,715	3,584	22,341	0	304	0	NA	NA
1965	2,857	108	4,193	452 677	1,244	9,001	5,662	4,251	25,029	0	913	0	NA NA	NA NA
1970	3.025	122	5,107	939	1.808	12,308	4.656	4,632	29,450	0	741	0	NA	NA
1971 1972	3,047 3,024	121 124	6,522 6,403	1,010 1,223	1,947 1,963	12,958 14,052	5,076 4,494	4,451 5,112	31,965 33,247	0	984 1,223	0	NA NA	NA NA
1972	3,024	123	8,028	1,080	1,889	14,052	3,638	4,806	34,054	0	1,223	0	NA NA	NA NA
1974	4,263	121	8,906	1,096	1,864	14,439	4.222	5,044	35,571	ŏ	941	ŏ	NA	NA
1975	4,636	124	9,165	1,169	1,903	15,063	4,603 4,768	4,488	36,391	0	1,074	0	NA	NA
1976 1977	4,117 5.429	146 106	8,484 8,797	1,219 928	1,828 2.034	15,741 16,509	4,768 4,543	4,921 4.943	36,961 37,754	0	1,130 757	0	NA NA	NA NA
1977	5,429 5,954	119	6,797 9.168	926 841	2,034	17,478	4,543 4.122	4,943 4,929	38,701	0	737 734	0	NA NA	NA NA
1979	7,104	126	9,610	1.658	2,302	16.480	3,187	5,172	38,409	Ö	802	Ö	NA	NA
1980	7,106	115	8,401	1,301	2,637	15,534	3,495	4,615	35,983	0	821	0	NA	NA
1981	7,432	102	7,098	1,546	2,424	15,548	1,022	3,174	30,812	0	623	0	0	NA
1982 1983	6,787 6,873	118 110	6,438 6,387	1,523 1,577	2,801 3,284	15,793 15,954	855 1,600	3,154 3,515	30,563	0	1,024 1,394	0	1	NA NA
1984	7,905	116	6.107	1,387	3,413	16,151	953	4.090	32,316 32,101	0	1,391	0	59	NA NA
1985	8,303	115	5,715	1,486	3,808	16,240	431	4,129	31,809	Ö	1,019	Ŏ	12	NA
1986	8,112	105 99	6,978	1,542	4,335	17,541	360 357	3,651	34,406	0	1,413	0	5	NA
1987	11,807	99 109	6,507 7,060	1,652 1,432	4,969 4,977	17,623 18,148	357	4,065	35,172	0	856	0		NA NA
1988 1989	14,513 15,044	109	7,060 5,917	1,432	4,977 5,095	18,148	288 250	4,066 4,736	35,971 34,694	0	593 562	0	1	NA NA
1990	15,738	117	7 162	1,074	5.281	16.724	367	4,475	35.082	0	508	0	i	NA
1991	14,834	133	7.038	1,074 747	5,917	17,395	367 200	5,636	36,933	Ō	627	0	1	NA
1992	15,719	123 138	7,286 7,422	696	5,607	17,905	245	4,785	36,524 37,422	0	602	0	7	NA
1993 1994	16,063 16,603	138 137	7,422 7,653	779 784	5,518 5,270	18,837 19,433	285 343	4,582 4,792	37,422 38,275	0	860 750	0	19 0	NA NA
1995	15,675	157	8,469	1,531	5,658	20,771	294	4,792	41,718	0	969	0	0	NA NA
1996	15,615	161	8.746	2.621	6.303	21,170	87	5,703	44 628	Ŏ	1.049	Ŏ	22	NA
1997	16,507	165	9,976	750	6,279	22,024	149	5,349	44,529 45,452	0	1,344	0	0	NA
1998	17,482	170	10,398	430	6,379	22,735	96	5,413	45,452	0	1,315	0	297	NA NA
1999 2000	16,611 17,373	160 165	9,793 10,629	1,013 1,804	7,443 7,701	23,141 23,895	60 71	5,356 5,080	46,806 49,179	0	1,255 746	0	253 287	NA NA
2001	16,748	159	11 236	1,988	6.880	22,993	18	4.898	48.013	0	508	0	378	(s)
2002	16,434	159 163	11,482	1,988 1,280	6,416	24,158	82	4,031	48,013 47,450	Ö	458	Ö	100	`1
2003	16,975	154	12,082	716	6,758	24,325	111	6,089	50.082	0	421	0	77	1
2004 2005	18,150	156 160	12,264 13,717	805 1,473	7,137	24,744	171 220	5,312	50,434 52,803	0	450 784	0	37 619	1
2005	18,594 17,324	187	17,292	1,473	7,394 7,560	24,677 25,312	243	5,323 5,057	56,863	0	764 747	0	521	4 10
2007	17,524	220	15.946	1.453	7.085	26.054	309	4,703	55,550	0	539	Ö	900	14
2008	17,799	224	14,138	1,351	6,509	25,051	441	4,624	52,113	0	668	24	1,088	12 13
2009	16,643	214	12,852	1,113	5,751	25,324	130	4,610	49,781	0	835	160	1,255	13
2010 2011	15,950 15,603	219 222	12,707 15,448	1,078 1,313	5,031 4,825	24,761 25,568	14	5,276 5,458	48,866 52,613	0	696 1,230	448 573	1,453 1,934	10 36
2012	14,671	223	14,776	1,313	4,625	25,228	1	5,456	52,613	0	748	704	2.054	65
2013	16,173	223 247	15,317	1,134 1,322	4,468	26.085	2	5,041	52,236	ő	505	704 540	2,054 2,223	65 45
2014	15,676	242	15,169	1,284 1,090	4,816	26,469 27,776	21	4,966	52,726	0	633 769	660	2,203 2,763	87 39
2015 2016	15,242 12,576	233 240	14,293	1,090 1,123	5,288 5,963	2/,/76	4	5,073 R 5,456	53,524 R 55,324	0	769 760	626 822	2,763 2,952	39 150
2016	12,576 12,923	240 222	14,248 15,043	1,123	5,963 6,357	28,535 28,769	0	R 5 655	H 56 957	0	1,294	822 858	2,952 2,986	101
2018	12,710	244	15,700	1,132 1,330	8.619	28,725	3	R 5,655 R 5,362	R 59,740	Ö	927	795	2,965	116
2019	12,272	264	15.040	1 508	7,501 5,251	29,667	0	H 5 475	R 59 191	0	875	819	3.118	194
2020	11,173	256	15,714	1,412	5,251	27,425	0	R 5,455	R 55,257	0	817	803	2,909	196
2021 2022	12,609 10,889	262 275	R 15,233 16,745	1,527 2,021	7,369 8.049	28,963 28,902	1	R 5,382 5,643	R 58,476 61,361	0	494 595	825 723	2,919 2,697	112 73
2022	10,009	2/5	10,745	2,021	0,049	20,902	Į.	5,043	01,001	U	ეჟე	123	2,097	73

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Utah (trillion Btu)

		T			Fossil	l fuels						Fossil fuels (as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	91.0	72.4 99.8	22.0	1.7	5.4	41.0	35.9	21.5	127.6	291.0	72.4 99.8	22.0	41.0
1965 1970	75.4 78.8	99.8 114.4	24.4 29.8	2.6 3.6	6.8 10.0	47.3 64.7	35.6 29.3	25.6 28.6	142.2 165.8	317.5 359.0	99.8 114.4	24.4 29.8	47.3 64.7
1970	76.6 78.7	113.9	38.0	3.9	10.0	68.1	31.9	27.4	180.0	372.6	113.9	29.6 38.0	68.1
1972	77.6	116.4	37.3	4.6	10.9	73.8	28.3	31.6	186.4	380.4	116.4	<i>37.3</i>	73.8
1973	98.8	116.3	46.8	4.1	10.5	76.8	22.9	29.5	190.5	405.6	116.3	46.8	76.8
1974	107.6	115.2	51.9	4.1	10.3	75.8	26.5	31.0	199.8	422.6	115.2	51.9	75.8
1975 1976	115.7 101.8	118.0 138.6	53.4 49.4	4.3 4.5	10.6 10.2	79.1 82.7	28.9 30.0	27.5 30.4	203.9 207.2	437.6 447.5	118.0 138.6	53.4 49.4	79.1 82.7
1977	132.8	101.0	51.2	3.4	11.3	86.7	28.6	30.6	211.9	445.7	101.0	51.2	86.7
1978	143.9	113.3	53.4	3.1	12.1	91.8	25.9	30.5	216.8	474.0	113.3	53.4	91.8
1979	170.9	121.0	56.0	6.0	12.8	86.6	20.0	32.1	213.4	505.3	121.0	56.0	86.6
1980	168.3	125.0	48.9	4.7	14.6	81.6	22.0	28.5	200.3	493.6	125.0	48.9	81.6
1981 1982	175.7 159.6	109.7 110.5	41.3 37.5	5.6 5.5	13.5 15.6	81.7 83.0	6.4 5.4	19.9 19.8	168.4 166.6	453.7 436.7	109.7 110.5	41.3 37.5	81.7 83.0
1983	159.6 160.2	118.4	37.2	5.5 5.7	18.3	83.0 83.8	10.1	21.7	176.8	436.7 455.5	118.4	37.5 37.2	83.0 83.8
1984	185.6	124.2	35.6	5.1	19.0	84.8	6.0	25.5	176.0	485.9	124.2	35.6	84.8
1985	199.4	123.8	33.3	5.4 5.7	21.3	85.3	2.7 2.3	26.0	174.1 188.2	497.2	123.8	33.3	85.3
1986 1987	189.0 273.8	99.7 106.9	40.6 37.9	5.7 6.1	24.3 27.9	92.1 92.6	2.3 2.2	23.2 25.5	188.2 192.2	476.8 572.9	99.7 106.9	40.6 37.9	92.1 92.6
1988	338.0	117.8	41.1	5.3	28.0	95.3	1.8	25.2	196.7	652.4	117.8	41.1	95.3
1989	349.7	123.4	34.5	5.1	28.6	90.9	1.6	29.4	190.1	663.3	123.4	34.5	90.9
1990	366.8	126.9	41.7	3.9	29.7	87.9	2.3	27.7	193.2	687.0	126.9	41.7	87.9
1991 1992	344.4	142.5 132.4	41.0 42.4	2.8 2.6	33.2 31.5	91.4 94.1	1.3	35.7 29.6	205.4 201.7	692.2 697.2	142.5	41.0 42.4	91.4 94.1
1992	363.1 371.0	132.4 149.3	42.4 43.2	2.6	31.5 31.1	94.1 98.2	1.5 1.8	29.6 28.6	201.7 205.7	725.9	132.4 149.3	42.4 43.2	94.1 98.3
1994	380.9	146.4	44.5	2.8	29.7	101.3	22	29.9	210.4	737.7	146.4	44.5	101.3
1995	361.4	166.9	49.3	5.4	31.8	108.1	1.9 0.5	31.4	227.9	756.2	166.9	49.3	108.1
1996	360.0	168.1	50.9	9.1	35.7	110.2	0.5	35.7	242.2	770.3	168.1	50.9	110.3
1997 1998	375.1 396.1	172.2 178.0	58.1 60.5	2.8 1.6	35.6 36.2	114.6 117.3	0.9 0.6	33.3 34.1	245.4 250.2	792.8 824.3	172.2 178.0	58.1 60.5	114.6 118.3
1999	384.1	169.3	57.0	3.6	42.2	119.5	0.4	33.7	256.4	809.7	169.3	57.0	120.4
2000	403.1	173.4	61.9	6.5	43.7	123.3	0.4	32.0	267.7	844.2	173.4	61.9	124.3
2001	384.5	167.6	65.4	7.3 4.7	39.0	118.3	0.1	30.2	260.3	812.4	167.6	65.4	119.6
2002 2003	370.6 379.2	172.4 163.5	66.8 70.3	4.7 2.7	36.4 38.3	125.3 126.1	0.5 0.7	24.5 38.1	258.2 276.3	801.1 819.0	172.4 163.5	66.8 70.3	125.6 126.4
2003	379.2	164.2	70.3	3.1	36.3 40.5	128.4	1.1	33.1	276.3 277.5	841.3	164.2	70.3 71.4	128.6
2005	405.5	168.8	79.8	5.5	41.9	126.0	1.4	33.0	287.6	861.9	168.8	79.8	128.1
2006	382.8	197.9	100.3	5.2	42.9	129.4	1.5	31.1	310.5	891.2 921.9	197.9	100.3	131.2
2007 2008	391.4 395.9	231.1 237.4	92.2 81.7	5.4 5.1	40.2 36.9	130.8 124.1	1.9 2.8	28.8	299.4 279.2	921.9 912.5	231.1 237.4	92.2 81.7	134.0 127.9
2008	365.0	223.6	73.6	4.2	32.6	124.1	0.8	28.5 28.5	279.2 264.3	852.9	223.6	81.7 74.2	127.9
2010	356.1	229.1	72.9	4.1	28.5	120.4	0.1	32.6	258.7	843.9	229.1	73.4	125.5
2011	346.2	230.7	87.8	5.0	27.4	122.7	(s)	33.8	276.7	853.6	230.7	89.1	129.5
2012	322.1	232.6	83.9	4.4	26.1	120.6	(s) (s) (s) (s) 0.1	34.5	269.4	824.1	232.6	85.2	127.7
2013 2014	355.2 344.1	258.7 251.6	85.8 85.2	5.1 4.9	25.3 27.3	124.3 126.3	(s)	31.1 30.6	271.6 274.4	885.5 870.1	258.7 251.6	88.3 87.4	132.0 133.9
2014	330.0	242.8	80.0	4.2	30.0	130.9	(s)	31.3	276.3	849.2	242.8	82.4	140.5
2016	269.0	250.2	78.8	4.3 4.3	33.8	134.0	(s) 0.0	34 4	276.3 R 285.4 R 294.5	804.6	250.2	82.0	144.2
2017	274.8	231.2	83.5	4.3	36.0	135.0	0.0	R 35.6	R 294.5	R 800.5	231.2	86.6	145.4
2018	273.1	253.8	87.6	5.1	48.9	134.8	(s) 0.0	R 33.8 R 34.4	R 310.2 R 305.8	R 837.1 R 849.2	253.8	90.4	145.2
2019 2020	267.0 244.3	276.5 266.6	84.0 87.4	5.8 5.4	42.5 29.8	139.0 128.4	0.0	R 34.4	R 285.3	H 796 2	276.5 266.6	86.6 90.5	149.9 138.6
2021	276.2	274.4	R 86.5	5.9	41.8	136.1		R 33.8	R 303.8	R 854.4	274.4	R 87.8	146.3
2022	237.9	287.0	95.1	7.8	45.6	136.5	(s) (s)	35.6	320.4	845.3	287.0	96.5	145.9

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Utah (continued) (trillion Btu)

							Renewable en	ergy							
					Bion	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 1.0	2.2 2.0	NA	NA	NA	NA	2.2 2.0	0.0	NA	NA	R 3.3 P 5.1	R 3.6	0.0	R 297.8
1965 1970	0.0 0.0	R 3.1	2.0	NA NA	NA NA	NA NA	NA NA	2.0	0.0 0.0	NA NA	NA NA	H 5.1 R 4 9	R 11.5	0.0 0.0	R 334.1
1971	0.0	R 2.5 R 3.4	2.3 2.3	NA	NA	NA	NA	2.3 2.3	0.0	NA	NA	R 4.8 R 5.7	R 26.6 R 29.8	0.0	R 390.4 R 408.0
1972 1973	0.0 0.0	R 4.2 R 3.8	2.5 3.1	NA NA	NA NA	NA NA	NA NA	2.5 3.1	0.0 0.0	NA NA	NA NA	R 6.7 R 6.9 R 5.8	R 33.7	0.0 0.0	R 420.8 R 450.0
1973	0.0	R 3 2	2.6	NA NA	NA NA	NA NA	NA NA	2.6	0.0	NA NA	NA NA	R 5.8	37.5 R 36.2	0.0	H 464.6
1975	0.0	R 3.7	2.9 3.3 3.8 4.5	NA	NA	NA	NA	29	0.0	NA	NA	H66	H 26.9	0.0	H 471 1
1976 1977	0.0 0.0	R 3.9 R 2.6	3.3	NA NA	NA NA	NA NA	NA NA	3.3 3.8	0.0 0.0	NA NA	NA NA	R 7.1 R 6.4	R 47.0 R 26.8	0.0 0.0	R 501.6 R 479.0 R 501.2
1978	0.0	H 2 5	4.5	NA	NA	NA	NA	4.5 5.3	0.0	NA	NA	R70	R 20.1 R 3.1 R -6.3	0.0	R 501.2
1979 1980	0.0 0.0	R 2.7 R 2.8	5.3 4.5	NA NA	NA NA	NA NA	NA NA	5.3 4.5	0.0 0.0	NA NA	NA NA	H 8.1	H 3.1	0.0 0.0	R 516.5 R 494.5
1980	0.0	R 2.1 R 3.5	4.5 5.9	0.0	NA NA	NA NA	0.0	4.5 5.9	0.0	NA NA	NA NA	R 8.1 R 7.3 R 8.0	R 6.1 R 8.2	0.0	R 467 g
1982	0.0	R 3.5	6.0	(s) 0.0	NA	NA	0.0	6.1	0.0	NA	NA	н 9 5	R 8.2	0.0	R 454.5 R 477.0 R 491.1 R 488.9
1983 1984	0.0 0.0	R 4.8 R 4.7	6.5 6.7	0.0 0.2	NA NA	NA NA	0.0 0.0	6.5 6.9	0.0 P 0.1	NA 0.0	0.0 0.0	R 11.3 R 11.8	R 10.3 _R -6.6	0.0 0.0	R 477.0
1985	0.0	R 3.5	6.9	(s)	NA	NA	0.0	6.9	H 0.4	0.0	0.0	H 10 8	H_10 N	0.0	R 488.9
1986 1987	0.0	R 4.8	6.5 3.6	(s) (s) (s)	NA	NA	0.0	6.5	R 0.6 R 0.6	0.0 0.0	0.0	R <sub>11.9</sub>	R -29.6 R -127.7	0.0	R 459.1 R 452.4
1987 1988	0.0 0.0	R 2.9 R 2.0	3.6	(s) (s)	NA NA	NA NA	0.0 0.0	3.6 3.9	Ros	0.0	0.0 0.0	R 11.9 R 7.1 R 6.5	N -127.7 R -141 7	0.1 0.0	R 517 2
1989	0.0	Ria	3.5		NA	NA	0.0	3.5	R 1 0	(s)	0.0	HAS	R -141.7 R -143.6 R -157.4	(s) 0.0	R 517.2 R 526.2
1990 1991	0.0	R 1.7 R 2.1	3.4 3.6	(s)	NA NA	NA NA	0.0 0.0	3.4 3.6	R 0.9 R 1.1	(s)	0.0 0.0	R 6.2 R 6.8	H -157.4 R -134.2	0.0 0.0	R 535.8 R 564.9
1991	0.0	R 2 1	3.8	(s) (s) (s) (s)	NA NA	NA NA	0.0	3.8	R11	(s) (s)	0.0	Rea	R -152.7	0.0	H 551 4
1993	0.0	R 2.9	3.7 3.6	0.1	NA	NA	0.0	3.8 3.6	R n 9	(s)	0.0 0.0	R 7.7	R -152.7 R -157.8 R -158.6	0.0	R 575.8 R 586.4
1994 1995	0.0	R 2.9 R 2.6 R 3.3	3.6 3.6	0.0 0.0	NA NA	NA NA	0.0	3.6 3.6	R 1.1 P 1.0	0.1 0.1	0.0 0.0	R 7.7 R 7.3 R 7.9	n -158.6 R -128.4	0.0 0.0	n 586.4 R 635.7
1996	0.0	R 3.6	3.8	0.1	NA	NA	0.0	3.9	R11	0.1	0.0	Raa	R -128.4 R -114.0 R -124.7 R -133.0	0.0	R 635.7 R 664.9
1997	0.0	R 4.6 R 4.5	4.4 3.9	0.0	NA	NA	0.0	4.4	R 1.1 R 1.1	0.1	0.0	R 10.1 R 10.5	H -124.7	0.1	R 678.3 R 701.8
1998 1999	0.0 0.0	R 4.5	3.9 5.4	1.0 0.9	NA NA	NA NA	0.0 0.0	4.9 6.2	R 1 1	(s) (s)	0.0 0.0	H 10.5	R -127 7	(s) 0.0	R 693 6
2000	0.0	R 4.3 R 2.5	5.4 5.7	1.0	NA	NA	0.0	6.7	R 1 1	(s)	0.0	R 11.6 R 10.3	R -127.7 R -114.2	0.0	R 693.6 R 740.3
2001 2002	0.0 0.0	R 1.7 R 1.6	3.4 3.4	1.3 0.3	(s) (s)	NA NA	0.0 0.0	4.7 3.7	R 1.1 R 1.3	(s) (s)	0.0 0.0	R 7.6	H -109.1	0.0	R 710.8 R 690.7
2002	0.0	R 1 1	3.4	0.3	(s)	NA NA	0.0	3.7	H 1 2	(s)	0.0	R 6.7 R 6.4	R -109.1 R -117.2 R -123.8	(s) (s)	H 701 6
2004	0.0	H15	3.5 3.2	0.1	(s)	NA	0.0	3.6	H12	(s)	0.0	H 6.5	R -115.4 R -113.8	(s) 0.1	R 732.5 R 757.6
2005 2006	0.0 0.0	R 2.7 R 2.5 R 1.8	3.2	2.1 1.8	(s) 0.1	NA NA	0.0 0.0	5.4 5.1	R 1.3 R 1.3	(s) (s)	0.0 0.0	R 9.4 R 9.0	n -113.8 R -125.1	0.1	<sup>n</sup> /5/.6 R 775 1
2007	0.0	P 1.8	3.2 3.3	3.1	0.1	NA	0.0	6.5	T 1 3	(s)	0.0	R 9.0 _R 9.7	R -125.1 R -153.5	(s) -0.1	R 775.1 R 778.1
2008	0.0	R 2.3 R 2.8 R 2.4 R 4.2	3.8	3.8	0.1	NA	0.0	7.6	R 1.7 R 1.7	(s)	R 0.1 R 0.5 R 1.5	R 11.7	R -153.5 R -159.9 R -129.0 R -111.6 R -92.3 R -65.1 R -88.4	-0.1	R 764.2 R 736.1 R 746.1
2009 2010	0.0 0.0	R 2.4	2.7 3.0	4.3 5.0	0.1 0.1	NA NA	0.0 0.0	7.1 8.1	H 1 7	0.1 0.1	R 1.5	R 12.3 R 13.7	R -111.6	-0.1 (s)	R 746.1
2011	0.0	R 4.2	2.7	6.7	0.2	0.0	0.0	9.6	R 1.9	0.1	H 2 N	H 17 8	R -92.3	(s)	R 779.1 R 776.0
2012 2013	0.0 0.0	R 2.6 R 1.7	2.7 2.5 2.9	7.1 7.7	0.3 0.2	0.0 0.0	(s) (s)	10.0 10.9	R 2.0 R 1.9	R 0.1 R 0.1	R 2.4 R 1.8	R 17.0 R 16.5	n -65.1 R -88 4	(s) -0.1	776.0 R 913.5
2014	0.0	R <sub>2.2</sub>	3.1	7.6	0.5	0.0	(s)	11.2	Ros	R <sub>0.2</sub>	Raa	H 18 4	n -103.7	(s)	R 813.5 R 784.8
2015	0.0	R 2.6	5.2	9.6	0.2	0.0	(s)	15.0	R 2.3	R 0.4	R 2.1	H 22 4	R -84.4	0.1	H 787 2
2016 2017	0.0 0.0	R 2.6 R 4.4	5.5 5.1	10.3 10.4	0.8 0.5	0.0 0.0	0.0 0.0	R 16.5 16.0	R 2.3 R 2.5 R 2.4 R 2.3	R 4.2 R 8.6	R 2.1 R 2.8 R 2.9 R 2.7	R 28.6 R 34.4	R -44.4 R -36.4	(s) (s)	R 788.8 R 798.5
2018	0.0	R 3.2	5.9	10.3	0.6	0.0	0.0	<sup>R</sup> 16.8	R 2.3	Ran	R 2.7	H 34 0	R -36.4 R -52.3 R -51.8 R -28.6	0.1	R 819.0 R 832.0 R 801.4
2019 2020	0.0 0.0	R 3.0	5.9 R 4.4	10.9 10.1	1.0 1.1	0.0 0.0	0.0 0.0	17.8 R 15.5	R 1.9 P 2.1	R 9.1 R 10.7	R 2.8 R 2.7	R 34.5 R 33.9	H -51.8 R -28.6	0.0 0.0	H 832.0 R 801.4
2021	0.0	R 2.8 R 1.7	R 3.8	10.1	0.6	0.0	0.0	H 14.5	H 2.2	H 14.2	R 2.8	R 35.4	n -68.5	0.0	<sup>H</sup> 821.3
2022	0.0	2.0	4.2	9.4	0.4	0.0	0.0	14.0	2.4	15.9	2.5	36.7	-33.3	0.0	848.7

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Utah

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	2,935	66	3,764	452	1,003	7,813	3,425	3,584	20,039	(s)					3,474			
1970	2,590	118	5,098	939	1,808	12,308	2,888	4,632	27,673	3					5,225			
1980 1990	2,211 2,174	110 116	8,333 7.078	1,301 1.074	2,637 5,281	15,534 16,724	3,437	4,615 4,475	35,857 34.998	0					10,705 15,402			
2000	2,174	154	7,078 10,528	1,074	7,701	23,895	367 71	4,475 5,080	34,998 49,078	0					23,185			
2005	1,476	148	13,643	1,473	7,394	24,677	220	5,323	52,729	0					25,000			
2006	715	158	17,166	1,399	7,560	25,312	243	5,057	56,737	0					26,366			
2007	934	163	15,872	1,453	7,085	26,054	309	4,703	55,477	0					27,785			
2008	873	169	14,060	1,351	6,509	25,051	441	4,624	52,035	0					28,192			
2009 2010	718 717	164 171	12,789 12.626	1,113 1,078	5,751 5,031	25,324 24,761	130 14	4,610 5,276	49,717 48,785	0					27,587 28.044			
2010	598	182	15,360	1,076	4,825	25,568	14	5,458	52,525	0					28,859			
2012	588	176	14,707	1,134	4,608	25,228	1	5,560	51,237	0					29,723			
2013	645	198	15,272	1,322	4,468	26,085	2	5,041	52,191	0					30,474			
2014	614	183	15,128	1,284	4,816	26,469	21	4,966	52,685	0					30,043			
2015	662	176	14,260	1,090	5,288	27,776	4	5,073	53,490	0					30,192			
2016	575	180	14,193	1,123	5,963	28,535	0	R 5,456	R 55,270	0					30,180			
2017 2018	485 378	181 183	14,978 15,636	1,132 1,330	6,357 8,619	28,769 28,725	0	R 5,655 R 5,362	R 56,891 R 59,676	0					30,589 31,242			
2019	382	197	14,970	1,508	7,501	29,667	0	R 5,475	R 59,121	0					31,143			
2020	306	189	15,644	1,412	5,251	27,425	0	R 5,455	R 55,186	0					31,663			
2021	335	186	R 15,165	1,527	7,369	28,963	1	R <sub>5,382</sub>	R 58,408	35					32,678			
2022	318	194	16,689	2,021	8,049	28,902	1	5,643	61,305	31					33,366			
									Trillion	Btu								
1960	78.1	68.6	21.9	1.7	5.4	41.0	21.5	21.5	113.1	(s)	2.2	NA	NA	NA	11.9	273.9	R 23.9	R 297.8
1970	68.0	111.1	29.7	3.6	10.0	64.7	18.2	28.6	154.7	(s)	2.3			NA	17.8		R 36.5	R 390.4
1980	56.2	120.1	48.5	4.7	14.6	81.6	21.6	28.5	199.6	0.0	4.5			NA	36.5	416.8	R 77.7	R 494.5
1990	54.9	126.0	41.2	3.9	29.7	87.9	2.3	27.7	192.7	0.0	3.4			(s)	52.6		R 105.8	R 535.8
2000	55.4	162.4	61.3	6.5	43.7	124.3	0.4	32.0	268.1	0.0	4.3			(s)	79.1	569.9	R 170.4 R 189.8	R 740.3 R 757.6
2005 2006	34.1 16.6	156.0 167.5	79.4 99.6	5.5 5.2	41.9 42.9	128.1 131.2	1.4 1.5	33.0 31.1	289.3 311.6	0.0	2.4 2.4			(s) (s)	85.3 90.0	567.8 588.8	R 186.3	R 775.1
2007	21.3	172.4	91.8	5.4	40.2	134.0	1.9	28.8	302.1	0.0	2.7			(s)	94.8		R 184.0	R 778.1
2008	19.8	179.3	81.3	5.1	36.9	127.9	2.8	28.5	282.5	0.0	2.8			(s)	96.2		R 182.6	R 764.2
2009	16.1	171.9	73.9	4.2	32.6	128.9	0.8	28.5	268.9	0.0	1.6			0.1	94.1	553.4	R 183.3	R 736.7
2010	16.5	178.8	72.9	4.1	28.5	125.5	0.1	32.6	263.8	0.0	1.8			0.1	95.7	557.4	R 189.1	R 746.5
2011	13.8	189.2	88.6	5.0	27.4	129.5	(s)	33.8	284.3	0.0	1.4			0.1 R 0.1	98.5	588.1	R 192.2	R 780.3
2012 2013	13.5 14.7	183.9 207.5	84.8 88.0	4.4 5.1	26.1 25.3	127.7 132.0	(s)	34.5 31.1	277.5 281.5	0.0	1.2 1.5		0.8 0.8	"0.1 R 0.1	101.4 104.0	<sup>R</sup> 578.4 <sup>R</sup> 610.2	R 198.6 R 205.6	R 777.0 R 815.7
2013	13.9	191.2	87.2	4.9	25.3	133.9	(s) 0.1	30.6	284.1	0.0	1.5				102.5		R 192.4	R 786.6
2015	15.1	184.4	82.2	4.5	30.0	140.5	(s)	31.3	288.1	0.0	3.9	(s)		R 0.3	103.0	R 595.6	R 193.8	R 789.4
2016	13.1	188.6	81.7	4.3	33.8	144.2	0.0	34.4	298.5	0.0	R 4.1	0.0		R 0.6	103.0	R 608.7	<sup>R</sup> 182.5	R 791.2
2017	11.1	188.9	86.2	4.3	36.0	145.4	0.0	R 35.6	R 307.6	0.0	4.0	0.0	0.8	R 1.0	104.4	R 617.8	R 183.2	R 801.1
2018	8.7	190.6	90.0	5.1	48.9	145.2	(s)	R 33.8	R 323.0	0.0	R 5.1			R 1.4		R 636.3	R 184.9	R 821.2
2019	8.7	206.2	86.2	5.8	42.5	149.9	0.0	R 34.4	R 318.8	0.0	R 5.1			R 1.6	106.3	R 647.6	R 185.9	R 833.5
2020	7.1	196.8	90.0 R 87.4	5.4	29.8	138.6	0.0	R 34.3 R 33.8	R 298.1	0.0 R 0.1	R 3.5 R 3.0			R 1.9 R 2.3		R 616.2	R 187.2 R 186.5	R 803.4 R 822.3
2021 2022	7.7 7.4	195.2 203.2	***87.4 96.2	5.9 7.8	41.8 45.6	146.3 145.9	(s) (s)	35.6	R 315.1 331.1	0.1	3.4			2.7	111.5 113.8		186.5	849.9
2022	7.4	203.2	30.2	1.0	+3.0	1-0.9	(5)	55.0	551.1	0.1	3.4	0.0	0.6	2.1	113.6	002.0	107.5	049.9

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Utah

				Petr	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>¢</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	147	23	100	175	1	276				1,012			
1965 1970	103	31	98 143	356	20	474				1.243			
1970	61	45	143	489	6	639				1,688			
1975	39	60	357	397	4	758				2,493			
1980 1985	50 55	58 59	112 67	246 445	0 10	357 521				3,116 3,985			
1990	53	43	139	299	5	442				4,246			
1995	10	43 49	139 72	148	3	223				5,041			
2000	6	56	79	415	4	498				6.514			
2005 2006	4	58 60	26	551 644	1	579				7,567 8,232			
2006	2	60	29	578	2	675 608				8,232 8,752			
2007	0	66	79 26 29 28 17	666	1	684				8,786			
2009	Ö	65	23	643	i	667				8.725			
2010	0	65 66 70	20	442	(s)	462 559				8,834			
2011	0	70	24	535	(s)	559				8,947			
2012 2013	0	60 70	26	416 547	(s) (s)	442 565				9,188 9,402			
2013	0	62	20	455	(s)	475				8,964			
2015	ŏ	62 59 64	23 20 24 26 18 20 22 26	395	(s)	417				9,117			
2016	0	64	26	403	`1	430				9,371			
2017	0	67 67	23 26 24	648	(s)	671				9,511			
2018 2019	0	67 76	26	656 795	(s) (s)	682 819				9,715 9,740			
2020	0	74	18	479	(s)	497				10,547			
2021	Ō	74 72	18 22	406	(s)	429				10,950			
2022	0	79	23	583	(s)	605				11,344			
							Trillion Btu						
1960	3.8	23.4	0.6	0.7	(s) 0.1	1.3	1.8	NA	NA	3.5 4.2 5.8	33.8	R 7.0	R 40.7
1965 1970	2.7	28.4 41.9	0.6	1.4	0.1	2.1 2.7	1.6	NA	NA	4.2	38.9	R 8.3	R 47.2
1970	1.5	41.9	0.8	1.9	(s)	2.7	1.7	NA	NA	5.8	53.6	R 11.8 R 17.4	n 65.4
1975 1980	0.9 1.2	56.8 62.9	2.1 0.6	1.5	(s) 0.0	3.6 1.6	2.0 3.8	NA NA	NA NA	8.5 10.6	71.8 80.1	R 22 6	R 40.7 R 47.2 R 65.4 R 89.2 R 102.7 R 113.8 R 97.2 R 134.3 R 144.8 R 154.2 R 156.1 R 161.8
1985	1.3	63.1	0.4	0.9 1.7	0.1	2.1	6.0	NA	NA	13.6	86.2	R 22.6 R 27.6	R 113.8
1990 1995	1.2 0.2	47.3 52.1	0.8	1.1	(s)	2.0 1.0	3.0 3.0	0.1	(s) 0.1	14.5 17.2	68.0	R 29.2 R 36.6 R 47.9	_R 97.2
1995	0.2	52.1	0.4	0.6	(s)	1.0	3.0	0.1		17.2	73.6	H 36.6	H 110.2
2000	0.1	58.5 61.2	0.5	1.6	(s)	2.1	3.5	(s)	(s)	22.2	86.5	n 47.9	n 134.3
2005 2006	0.1 0.1	63.4	0.2 0.2	2.1 2.5 2.2	(S)	2.3 2.7	1.9 1.7	(s) (s)	(s) (s) (s)	25.8 28.1	91.3 96.0	R 57.5 R 58.2 R 57.9	1148.8 R 154.2
2007	0.1	63.9	0.2	2.2	(s)	2.4	1.9	(s)	(s)	29.9	98.2	R 57.9	R 156.1
2008	0.0	70.1	0.1	2.6	(s)	2.7	2.1	(s)	(s) 0.1	30.0	104.9	R 56.9	R 161.8
2009	0.0	68.2	0.1	2.5	(s)	2.6	1.0	(s)	0.1	29.8	101.7	R 56.9 R 58.0 R 59.6 R 59.6 R 61.4	R 159.7
2010	0.0	69.2	0.1	1.7	(s)	1.8	1.1	(s)	0.1	30.1	102.4	H 59.6	H 162.0
2011 2012	0.0 0.0	72.8 62.5	0.1 0.1	2.1 1.6	(S)	2.2 1.7	1.1 0.9	0.2 0.1	0.1 0.1	30.5 31.4	106.9 _ 96.7	11 59.6 R 61.4	11 166.5 R 159.1
2013	0.0	74.0	0.1	2.1	(5)	2.2	1.2	0.1	0.1	32.1	R 109 6	R 63 4	R 173 1
2014	0.0	65.3	0.1	1.7	(s)	1.9	1.2	0.1	H 0 1	30.6	R 109.6 R 99.1	R 63.4 R 57.4	R 166.1 R 161.8 R 159.7 R 162.0 R 166.5 R 158.1 R 173.1 R 156.5 R 155.9 R 160.8 R 165.7
2015	0.0	61.3	0.1	1.5 1.5 2.5	(s)	1.6 1.7	3.1	0.1	R 0.2 R 0.4	31.1	R 97.4 R 104.2 R 108.7	R 58.5 R 56.7 R 57.0	R 155.9
2016	0.0	66.8	0.2	1.5	(s)	1.7	3.2	0.1	<sup>H</sup> 0.4 R 0.8	32.0	n 104.2	n 56.7	n 160.8
2017 2018	0.0 0.0	69.6 70.3	0.1 0.2	2.5 2.5	(S)	2.6	3.2 _ 4.2	0.1 0.1	R 1 1	32.5 33.1	" 108.7 R 111 4	" 57.0 R 57.5	" 105./ R 168.0
2019	0.0	70.3	0.2	3.1	(8)	2.7 3.2	R 1 2	0.1	R13	33.2	R 111.4 R 121.6	R 57.5 R 58.2	R 168.9 R 179.7
2020 2021	0.0	77.4 75.0	0.1 0.1	1.8	(s)	1.9 1.7	R 2.5 R 2.1		R 1.5 R 1.9	36.0 37.4	R 119.5 R 118.1	R 62.4 R 62.5	R 181.9
2021	0.0	75.0	0.1	1.8 1.6	(s)	1.7	R 2.1	0.1 0.1	R 1.9	37.4	H 118.1	H 62.5	R 181.9 R 180.6 192.1
2022	0.0	82.4	0.1	2.2	(s)	2.4	2.6	0.1	2.2	38.7	128.4	63.7	192.1

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Utah

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	102	10	362	117	6	281	656	1 423	NA			NA	640			
1965 1970	102 78	16	362 356 521	238 327	148	281 234 202	656 1,072	1,423 2,048 1,892	NA			NA	1,128			
1975	48 92	10 6	1,300	266	46 28	210	795 1,098	2,902	NA NA			NA NA	1,890 2,479			
1980 1985	187 197	(s) 9	1,028 484	165 298	34 19	81 88	1,051 45	2 358	NA NA			NA NA	3,141 4,596			
1990	214	16	364	200	5	96	73	934 738	0			0	5,389			
1995 2000	67 52	27 31	382 366	99 278	1	21 22	13 16	516 687	0			0	6,462 8,746			
2005	41	34 34	343	558	11	24	3	940	0			ő	9,417			
2006 2007	32 20	34 34	437 452	294 382	6	25 25 25 25	1	762 863	0			0	9,749 10,241			
2008	0	38	423	455	2	25	0	906	0			ŏ	10,286			
2009 2010	0	37 38	524 461	323 329	2	25 25 25 25 26	0 (s)	874 817	0			(s)	10,235 10,368			
2011	ŏ	40	527 653	552	(s)	25 25	Ò	1,105	Ö			3	10,544			
2012 2013	0	35 41	653 610	294 494	(s)	26 26	0	973 1,130	0			7 11	10,803 11,008			
2014	0	38	586	515	i	25	17	1,145	0			18	11,053			
2015 2016	0	36 39	369 536	490 335	(s)	404 421	0	1,264 1,293	0			26 43	11,615 11,565			
2017	0	41	480	257	(s)	428	Ö	1,165	0			63	11,739			
2018 2019	0	42 47	423 464	415 425	(s) (s)	432 437	0	1,270 1,326	0			79 88	12,084 11,860			
2020	0	44	385	623	(s)	440	0	1,448	0			101	11,395			
2021 2022	0	44 48	492 500	809 900	(s) (s)	443 467	0	1,745 1,868	35 31			114 124	12,207 12,871			
2022	0	40	300	900	(5)	407	0	,	lion Btu			124	12,071			
1960	2.6	10.5	2.1	0.5	(e)	1.5	4.1	8.2	NA	(s)	NA	NA	2.2	22.5	R 4.4	R 27.9
1965	2.6 2.0	14.4	2.1	0.5 0.9	(s) 0.8	1.2	6.7	11.8	NA	(s)	NA	NA	2.2 3.8	23.5 32.0	R76	H 39.6
1970 1975	1.2 2.2	9.5 5.8	3.0 7.6	1.3 1.0	0.3 0.2	1.1 1.1	5.0 6.9	10.6 16.8	NA NA	(s) (s)	NA NA	NA NA	6.4 8.5	27.8 33.2	R 13.2 R 17.3	R 41.0 R 50.5
1980	4.3	0.4	6.0	0.6	0.2	0.4	6.6	13.8	NA	0.1	NA	NA	10.7	29.4	R 22.8	R 52.2
1985 1990	4.6 4.9	9.1 17.7	2.8 2.1	1.1 0.8	0.1	0.5 0.5	0.3 0.5	4.8 3.9	NA 0.0	0.1 0.3	NA 0.1	NA 0.0	15.7 18.4	34.4 45.3	R 31.9 R 37.0	R 66.3 R 82.3
1995	1.6	28.5	2.2	0.4	(s) (s) (s)	0.1	0.1	2.8	0.0	0.4	0.1	0.0	22.0	55.5	H 46 9	n 102 4
2000 2005	1.2 1.0	32.9 36.3	2.1 2.0	1.1 2.1	(s) 0.1	0.1 0.1	0.1 (s)	3.4 4.3	0.0 0.0	0.6 0.3	0.2 0.3	0.0 0.0	29.8 32.1	68.1 74.3	R 64.3 R 71.5	R 132.4 R 145.8
2006	0.8	36.0	2.5	1.1	(s)	0.1	(s) 0.0	3.8	0.0	0.4	0.3	0.0	33.3	74.5	R 68.9 R 67.8	R 143.4 R 144.6
2007 2008	0.5 0.0	36.4 40.0	2.6 2.4	1.5 1.7	(s)	0.1 0.1	0.0 0.0	4.2 4.3	0.0 0.0	0.4 0.3	0.3 0.3	0.0 0.0	34.9 35.1	76.8 80.0	<sup>R</sup> 67.8 <sup>R</sup> 66.6	R 144.6 R 146.6
2009	0.0	38.7	3.0	1.2	(s)	0.1	0.0	4.4	0.0	0.1	0.3	(s)	34.9	78.6	R 68.0 R 69.9	R 146.6 R 150.1
2010 2011	0.0	40.3 42.0	2.7 3.0	1.3 2.1	(s)	0.1 0.1	(s) 0.0	4.1	0.0 0.0	0.1 0.1	0.4	(s)	35.4 36.0	80.2 R 83.7	R 69.9 R 70.2	R 150.1 R 154.0
2012	0.0 0.0	37.0	3.8	1.1	(s) (s)	0.1	0.0	5.3 5.0	0.0	0.1	0.3 0.4	(s) R (s)	36.9	79.4	R 72.2 R 74.3	H 151.5
2013 2014	0.0	43.5 39.9	3.5 3.4	1.9 2.0	(s)	0.1	0.0	5.5 5.6	0.0	0.1	0.4	H (s)	37.6	R 87.1 R 83.8	R 74.3 R 70.8	R 161 3
2015	0.0 0.0	37.4	3.4 2.1	1.9	(S) (S)	0.1 2.0	0.1 0.0	5.6 6.1	0.0 0.0	0.1 0.6	0.4 0.4	<sup>R</sup> 0.1	37.7 39.6	H 84.2	R 74 6	R 154.5 R 158.7
2016	0.0	40.8	3.1	1.3	(s)	2.1	0.0	6.5	0.0	0.7	0.4	R 0.1 R 0.2	39.5	R 88.0 R 90.3	R 69.9 R 70.3	R 158.0 R 160.6
2017 2018	0.0 0.0	43.1 44.2	2.8 2.4	1.0 1.6	(S) (S)	2.2 2.2	0.0 0.0	5.9 6.2	0.0	0.7 0.8	0.4 0.4	n 0.3	40.1 41.2	H 93.0	H 71.5	H 164.5
2019 2020	0.0 0.0	49.6 46.1	2.7 2.2	1.6 2.4	(s)	2.2 2.2	0.0 0.0	6.5 6.8	0.0 0.0	0.7 0.8	0.4 0.4	R 0.3 R 0.3	40.5 38.9	R 97.9 R 93.3	R 70.8 R 67.4	R 168.7 R 160.7
2021	0.0	46.1	2.8	3.1	(S) (S)	2.2	0.0	8.2	R 0.1	0.7	0.4	R 0.4	41.6	н 97.4	R 69.6	H 167.1
2022	0.0	49.8	2.9	3.5	(s)	2.4	0.0	8.7	0.1	0.6	0.4	0.4	43.9	103.9	72.3	176.2

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Utah

					Petro	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>	Mil k'	llion Wh	End use f,k	energy losses	Total <sup>f,k</sup>
1960 1965	2,640 2,306	33 57	990	124 70	299 233	2,399 2,895	2,831 3,550	6,642	(s) 3				NA	1,822 1,404			
1965	2,306	57	1,163	70	233	2,895	3,550	7,910					NA	1,404			
1970 1975	2,477 2,478	63 55	1,564 3,356	116 495	261 266	2,068 3,285	4,240 4,138	8,249 11,541	3				NA NA				
1980	1,974	51	2,220	876	165	2,386	4,249	9,897	0				NA NA				
1985	1,726	46	989	668	220	360	3.831	6,068	Ö				NA	4,458			
1990	1,907	55 69	1,520	524	198	245	4,161	6,649	0				0	5,766			
1995 2000	1,905	69 64	1,383 1,730	1,252 1,068	323 240	282 54 217	4,738 4,785	7,977 7,877	0				0	6,957 7,917			
2005	2,151	46	3,252	317	587	24 217	4,785 5,033	9,406	0				0	7,917			
2005	1,431 680	53	3,683	398	612	242	5,033 4,773	9,708	0				0	8,356	==		
2007	911	56	2.647	453	524	309	4,448 4,352 4,326	8.382	ő				ő	8.759			
2008	873	56 53 52	2,652	166	485	441	4,352	8,096	0				0	9.086			
2009	718	52	1,916	111	469	130	4,326	6,952	0				(s)	8,594			
2010	717	56 60	1,576 2,097	293 211	366	14	4,986 5,159	7,235 7,861	0				(s)	8,808 9,333			
2011 2012	598 588 645	68	2,097	408	393 390	ļ	5,159 5,291	8,417	0				(s)	9,694			
2012	645	72	2,842	258	393	2	4,769	8,264	0	==			2	10,010	==		
2014	614	68 68	3,197	290	311	4	4,680	8,482	Ö				3	9,965			
2015	662	68	2,373	181	410	4	4,765	_ 7,734	0				5	9,405			
2016	575	65	2,209	343	415	0	R 5,164	R 8,130	0				6	9,187			
2017	485 378	62	2,593	219	420	0	R 5,379 R 5,092	R 8,611 R 8,669	0				8	9,283			
2018 2019	378	60 61	2,887 2,574	255 276	433 434	0	R 5,213	R 8,497	0				8	9,393 9,491			
2020	306	50	2,404	296	439	0	R 5.199	R 8.338	0				10				
2021	335	R 59	2,503	295	430	Ĭ	R 5,060	R 8,289	Ö				11				
2022	318	56	2,529	527	456	1	5,314	8,827	0				12	9,105			
									Trillion Bt	u							
1960	70.5	34.7	5.8	0.5	1.6	15.1	17.5	40.4	(s) (s)	0.3	NA	NA	NA		152.1	R 12.5 R 9.4	R 164.6 R 176.6
1965 1970	61.5 65.2	52.3 59.2	6.8 9.1	0.3 0.4	1.2	18.2	21.8	48.2	(s)	0.3	NA NA	NA NA	NA NA	4.8 5.6	167.2 R 180.8	P 9.4 B 11.5	n 176.6
1975	64.7	59.2 52.3	19.6	1.7	1.4 1.4	13.0 20.7	26.4 25.6	50.3	(s) 0.0	0.5 0.8	NA NA	NA NA	NA NA		196.9	H 20.7	R 217 6
1980	50.7	55.8	12.9	3.1	0.9	15.0	26.4	50.3 68.9 58.3	0.0	0.6	NA	NA	NA	15.2	180.6	R 20.7 R 32.3	R 192.4 R 217.6 R 212.9
1985	44.1	49.9	5.8	2.3	1.2	2.3	24.3	35.8	0.0	0.7	0.0	NA	NA	15.2	145.8	R 30.9 R 39.6	R 176.7 R 207.6
1990	48.7	60.1	8.9	1.8	1.0	1.5	25.9	39.1	0.0		0.0	0.2	0.0	19.7	168.0	R 39.6	R 207.6
1995	47.6	73.8	8.0	4.3	1.7	1.8	29.9	45.7	0.0	0.2	0.0	0.3	0.0	23.7	191.3	R 50.5	R 241.8
2000 2005	54.1 33.0	67.3 49.0	10.1 18.9	3.7 1.1	1.2 3.0	0.3 1.4	30.3 31.3	45.6 55.8	0.0		0.0 0.0	0.4 0.4	0.0 0.0	27.0 27.3	194.6 165.6	R 50.5 R 58.2 R 60.7 R 59.0 R 58.0 R 55.9 R 57.1 R 69.2	R 252.8 R 226.2
2006	15.7	56.1	21.4	1.4	3.2	1.5	29.5	56.9	0.0		0.0	0.4	0.0	28.5	158.0	R 59 0	R 217 0
2007	20.8	59.2	15.3	1.5	2.7	1.9	27.4	48.9	0.0		0.0	0.4	0.0		159.5	R 58.0	R 217.0 R 217.5 R 215.5
2008	19.8	56.8	15.3	0.6	2.5	2.8	27.0	48.1	0.0	0.4	0.0	0.5	0.0	31.0	156.6	R 58.9	R 215.5
2009	16.1	54.0	11.1	0.4	2.4	0.8	26.9	41.6	0.0	0.4	0.0	0.4	(s)	29.3	141.8	R 57.1	R 198.9
2010	16.5	58.3	9.1	1.1	1.9	0.1	30.9 32.1	43.1 47.0	0.0	0.5 0.2	0.0	0.3	(s)	30.1	148.9	H 59.4	R 208.3 R 217.5
2011 2012	13.8 13.5	62.3 70.6	12.1 13.4	0.8 1.6	2.0 2.0	(s) (s) (s)	32.1 32.9	47.0 49.9	0.0 0.0	0.2 0.2	0.0	0.3 0.4	(s)	31.8 33.1	148.9 155.4 R 167.6	R 62.2 R 64.8	R 217.5 R 232.4
2012	14.7	75.8	16.4	1.0		(S)	32.9 20.5	49.9	0.0		(s) (s)	0.4	(S)	34.2	174.0	R 67 5	R 241 5
2013	13.9	71.0	18.4	1.1	1.6	(s)	29.5 28.9	50.1	0.0	0.2	(s)	0.4	(s)	34.0	169.6	R 67.5 R 63.8	R 241.5 R 233.4
2015	15.1 13.1	70.7	13.7	0.7	2.1	(s) 0.0	29.5	45.9	0.0	0.2	(s) 0.0	0.4	_ (s)	32.1	164.4	R 60.4	R 224.8
2016		67.6	12.7	1.3	2.1 2.1 2.1		29.5 32.7 R 34.0 R 32.2 R 32.9	48.8 R 51.9	0.0		0.0	0.4	R (s)	31.3	161.5 R 159.7	R 60.4 R 55.6 R 55.6 R 55.6 R 56.7	R 217.1 R 215.3
2017	11.1	64.4	14.9	0.8	2.1	0.0	H 34.0	H 51.9	0.0		0.0	0.4	R (s) R (s)	31.7	H 159.7	H 55.6	H 215.3
2018 2019	8.7	63.0 63.5	16.6 14.8	1.0 1.1	2.2 2.2	(s) 0.0	11 32.2 B ac o	R 52.0 R 51.0	0.0		0.0 0.0	0.4 0.4	R (s)	32.0 32.4	R 156.4 R 156.1	11 55.6 B 50.7	R 212.0 R 212.8
2019	8.7 7.1	60.4	14.8	1.1	2.2	0.0	R 32.8	R 50.0	0.0 0.0		0.0	0.4	R (s)	32.4 33.0	R 151 1	R 57.2	R 208.2
2021	7.7	R 61.3	14.4	1.1	2.2 2.2 2.3	0.0 (s) (s)	R 32.0	R 49.7	0.0	0.2	0.0	0.4	R (S) R (S)	32.3	r 151.6	R 54.0	R 205.7
2022	7.4	58.3	14.6	2.0	2.3	(s)	33.7	52.6	0.0	0.2	0.0	0.4	(s)	31.1	149.9	51.1	201.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Utah

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	45	(s)	595 383	2,312	35 12	1,003	152 151	7,232 8,534	370	11,698	0			
1965	8	(s) (s) (s)	383	2.569	12	1,244	151	8,534	98	12,991	0			
1970 1975	4 (s)	(s) (s)	178 161	2,870 4 141	6 11	1,808 1,903	161 158	11,845 14,586	25 68	16,893 21,028	0			
1980	(0)	1	139	4,141 4,974	14	2,637	158 194	15.288	0	23,245	ŏ			
1985 1990	0	1	94 106	4,121 5,056	76 51	3,808 5,281	176 198	15,932 16,430	0 48	24,207 27,169	0			
1990	0	3	64	6.566	32	5,658	189	20,428	46 0	32 936	0			
2000	Ö	4	84	8,353 10,021	43 47	7,701	202 170	23,633	Ō	40,015 41,806	8			
2005 2006	0	9 11	107 110	10,021 13,018	47 64	7,394 7,560	170 166	24,067 24,676	0	41,806	28 29			
2006	0	12	78	12,745	39	7,085	171	25,505	0	45,593 45,624 42,349	34			
2008	Õ	12	110	10,967	39 63	6,509	159	24,541	Õ	42,349	33			
2009 2010	0	10 11	138 65	10,326 10,570	36 15	5,751 5,031	143 221	24,830 24,370	0	41,225 40,271	32 34			
2010	0	12	61	12,713	15	4,825	237	25.149	0	43,000	35			
2012	Ö	13	57	11,702	15	4,608	237 211	24,812	Ö	41 405	38			
2013 2014	0	14 14	49 63	11,802 11,324	15 24 25	4,468 4,816	222 222	25,666 26,133	0	42,231 42,583	54 61			
2014	0	14	60	11,495	23	5,288	247	26,962	0	42,565 44.076	56			
2016	0	13	56	11,422	44	5.963	247 R 235 R 221	27.698	Ō	44,076 R 45,417	56 57			
2017 2018	0	11 13	56 55 59 60	11,882 12,300	9 5	6,357 8,619	H 221	27,922 27,860	0	R 46,445 R 49,054 R 48,479	56 51			
2019	0	13	60	11,908	12	7.501	R 211 R 202	28,797	0	R 48,479	52			
2020	0	12 12	59 59	12,836	14	5,251 7,369	H 196	26,546	0	R 44,903 R 47,946	49 49			
2021 2022	0	12 12	59 61	R 12,149 13,637	16 12	7,369 8,049	R 198 224	28,090 27,979	0	7 47,946 50,005	49 46			
LOLL		12	- 01	10,001		0,040		Ilion Btu		00,000	-10			
1960	1.2	0.1	3.0	13.5	0.1	5.4			2.3	63.2	0.0	64.5	0.0	64.5
1965	0.2	0.4	1.9	15.0	(s) (s)	6.8	0.9 0.9	38.0 44.8	0.6	70.1	0.0	70.6	0.0	70.6
1970	0.1	0.5	0.9	16.7	(s)	10.0	1.0	62.2	0.2	91.0	0.0	91.5	0.0	91.5
1975 1980	(s) 0.0	0.3 0.9	0.8 0.7	24.1 29.0	(s) 0.1	10.6 14.6	1.0	76.6 80.3	0.4 0.0	113.6 125.8	0.0 0.0	113.8 126.8	0.0 0.0	113.8 126.8
1985	0.0	1.3	0.5	24.0	0.3	21.3	1.2 1.1	83.7 86.3	0.0	130.8	0.0	132.1	0.0	132.1
1990	0.0	1.0	0.5	29.4	0.2	29.7	1.2	86.3	0.3	147.7	0.0	148.7	0.0	148.7
1995 2000	0.0 0.0	3.3 3.7	0.3 0.4	38.2 48.6	0.1 0.2	31.8 43.7	1.1 1.2	106.3 122.9	0.0 0.0	178.0 217.0	0.0 (s)	181.3 220.7	0.0 0.1	181.3 220.8
2005	0.0	9.5	0.5	58.3	0.2	41.9	1.0	125.0	0.0	226.9	0.1	236.6	0.2	236.8
2006	0.0	12.0	0.6	75.5	0.2	42.9	1.0	127.9	0.0	248.2	0.1	260.3	0.2 0.2	260.5 259.9
2007 2008	0.0 0.0	12.9 12.5	0.4 0.6	73.7 63.4	0.2 0.2	40.2 36.9	1.0 1.0	131.1 125.3	0.0 0.0	246.6 227.4	0.1 0.1	259.7 240.0	0.2 0.2	259.9 240.2
2009 2010	0.0	10.9	0.7	59.7	0.1	32.6 28.5	0.9 1.3	126.4 123.5	0.0	220.4 214.8	0.1	231.3 225.9	0.2 0.2	231.6 226.2
2010	0.0	11.0	0.3	61.0	0.1	28.5	1.3	123.5	0.0	214.8	0.1	225.9	0.2	226.2
2011 2012	0.0 0.0	12.1 13.8	0.3	73.4 67.5	0.1 0.1	27.4 26.1	1.4 1.3	127.3 125.6	0.0 0.0	229.8 220.8	0.1 0.1	242.1 234.8	0.2 0.3	242.3 235.0
2013	0.0	14.3	0.3 0.2	68.0	0.1	26.1 25.3	1.3 1.3	129.9	0.0	224.9	0.2	239.4	0.4	235.0 239.8
2014	0.0	15.1 15.0	0.3 0.3	65.3 66.2	0.1	27.3 30.0	1.3 1.5	132.2 136.3	0.0 0.0	226.5	0.2	241.8	0.4	242.2 250.0
2015 2016	0.0 0.0	15.0 13.3	0.3	65.8	0.1 0.2	30.0	1.5 1.4	136.3 140.0	0.0	234.5 R 241.5	0.2 0.2	249.6 R 255.0	0.4 R 0.3 R 0.3	255.3
2017	0.0	11.8	0.3	68.4		36.0	1.3	141.1	0.0	247.2	0.2	R 259.2	R 0.3	259.5 275.8
2018	0.0	13.2	0.3	70.8	(s) (s)	48.9	1.3	140.8	0.0	262.1	0.2	275.5	0.3	275.8
2019 2020	0.0 0.0	13.6 12.9	0.3	68.6 73.9	(s) 0.1	42.5 29.8	1.2 1.2	145.5 134.1	0.0 0.0	258.2 239.3	0.2	272.0 252.4	0.3	272.3 252.7
2021	0.0	12.9	0.3 0.3 0.3	73.9 R 70.0	0.1	41.8	1.2 1.2 R 1.2	141.9	0.0	239.3 R 255.6	0.2 0.2	252.4 R 268.6	0.3 0.3	<sup>H</sup> 268.9
2022	0.0	12.7	0.3	78.6	(s)	45.6	1.4	141.3	0.0	267.5	0.2	280.3	0.3	280.6

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— —</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Utah

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil b	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousand	d barrels		Million kild	owatthours	Wood and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	515	4	12	0	2,291	2,302	0	304		0	NA	NA	0	
1965 1970	515 363 435	5 4	8	0	2,291 1,597 1,768	1,605 1,777	0	910 738		0	NA NA	NA NA	0	
1975	2,026 4,895	3	10	Ŏ	152 58	162 126	Ö	1,074 821		Ö	NA	NA	Ŏ	
1980 1985	4,895 6,325	5 (s)	67 55	0	58 25	126 80	0	821 1,019		0 110	NA 0	NA 0	0	
1990 1995	13,563	`í	84 66	ő	0	84 66	Ō	508		152 140	Ö	0	Ö	
1995 2000	13,693 15,164	9 11	66 101	0	0	66 101	0	969 746		140 152	0	0	0	
2005	17,118	12	101 74	ŏ	Ö	74	Ö	784		185	ŏ	Ö	40	
2006 2007	16,609 16,593	12 29 56	126 73	0	0	126 73	0	747 539		191 164	0	0	14 -16	
2008	16,927	55 50	78	ő	Ö	78	Ö	668		254	ő	24	-42	
2009 2010	15,925 15,233	50 48	63 81 88 69	0	0	63 81	0	835 696		279 277	0	160 448	-35 4	
2011	15,005	40 40 47	88	0	0	88	0	1,230		330	0	573	10	
2012 2013	14,084 15,529	47	69	0	0	69	0	748		335	2	704 540	10 -18	
2013	15,529	50 59 56	46 42	0	0	46 42	0	505 633		319 522	2	660	-18 1	
2015	14,580	56	34	0	0	34	0	769		430	32	626	15	
2016 2017	12,001 12,438	60 41	34 55 66	0	0	55 66	0	760 1,294		485 481	1,054 2,211	822 858	10 8	
2018 2019	12,332	61	64 70	Ō	Ō	64	Ō	927 875		446	2,224 2,186	795 819	39	
2019 2020	11,891 10,866	67 67	70 71	0	0	70 71	0	8/5 817		310 377	2,186 2,571	819 803	0	
2021	12,274	76	68 55	Õ	Õ	68 55	ŏ	459 564		420	3,479	825	Ŏ	
2022	10,571	80	55	0	0		0	564		463	3,853	723	0	
4000	10.0	0.0	0.1	0.0	44.4		Trillion Btu	R 1.0	0.0	0.0	N/A	N/A	2.0	B 00 0
1960 1965	12.8 9.1	3.8 4.4	0.1 (s)	0.0 0.0	14.4 10.0	14.5 10.1	0.0 0.0	11.0 R 3.1	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	R 32.2 R 26.7
1970	10.8 47.9	3.3	(s) 0.1	0.0	11.1	11.2	0.0	R 3.1 R 2.5 R 3.7	0.0	0.0	NA	NA	0.0	R 27.8
1975 1980	47.9 112.1	2.9 4.9	0.1 0.4	0.0 0.0	1.0 0.4	1.0 0.8	0.0 0.0	н 2 8	0.0 0.0	0.0 _ 0.0	NA NA	NA NA	0.0 0.0	R 27.8 R 55.5 R 120.6
1985	149.3	0.3	0.3	0.0	0.2	0.5	0.0	H 3.5	0.0	R <sub>0.4</sub>	0.0	0.0	0.0	n 153 9
1990 1995	312.0 312.1	0.9 9.1	0.5 0.4	0.0 0.0	0.0 0.0	0.5 0.4	0.0 0.0	R 1.7 R 3.3	0.0 0.0	R 0.5 R 0.5	0.0 0.0	0.0 0.0	0.0 0.0	R 315.7 R 325.4
2000	347.6	11.0	0.6	0.0	0.0	0.6	0.0	R 2.5	1.4	Rns	0.0	0.0	0.0	R 363.7 R 388.9
2005 2006	371.5 366.2	12.8 30.4	0.4 0.7	0.0 0.0	0.0 0.0	0.4 0.7	0.0 0.0	R 2.5 R 2.7 R 2.5	0.8 0.8	R 0.6 R 0.7	0.0 0.0	0.0 0.0	0.1	R 388.9 R 401.3
2007	370.1	58.7 58.1	0.4 0.5	0.0	0.0	0.4	0.0	H18	0.6	H 0.6	0.0	0.0 P 0.1	(s) -0.1	R 432.2 R 438.7
2008 2009	376.1	58.1 51.8	0.5 0.4	0.0 0.0	0.0 0.0	0.5 0.4	0.0 0.0	R 2.3	1.0 1.1	R 0.9 R 1.0	0.0 0.0	H 0.1 R 0.5	-0.1 -0.1	н 438.7 R 406.4
2010	348.9 339.6	50.2	0.4 0.5 0.5	0.0	0.0	0.5	0.0	R 2.8 R 2.4 R 4.2	1.2	R 0.9	0.0	R15	-0.1 (s)	R 396.4 R 383.0
2011	332.4	41.4	0.5	0.0	0.0	0.5	0.0	R 4.2	1.3	R 1.1 R 1.1	0.0	R 2.0	(s)	R 383.0
2012 2013	308.5 340.5	48.8 51.1	0.4 0.3	0.0 0.0	0.0 0.0	0.4 0.3	0.0 0.0	R 2.6 R 1.7	1.3 1.4	R11	(s) (s)	R 2.4 R 1.8	(s) -0.1	R 365.1 R 397.9
2014	330.1	60.5	0.2	0.0	0.0	0.2	0.0	Roo	1.5	R 1.8 R 1.5	(s) R 0.1	Rog	(s) 0.1	H 308 6
2015 2016	314.9 255.9	58.5 61.6	0.2 0.3	0.0 0.0	0.0 0.0	0.2 0.3	0.0 0.0	R 2.6 R 2.6	1.2 1.3	R 1 7	" U.1 R 3.6	R 2.1 R 2.8	0.1 (s)	R 381.2 R 329.9
2017	263.7	42.3	0.4	0.0	0.0	0.4	0.0	R 4 4	1.1	R 1.6	R 3.6 R 7.5 R 7.6	R 2.9 R 2.7	(s) 0.1	H 324.0
2018 2019	264.4 258.3	63.2 70.2	0.4 0.4	0.0 0.0	0.0 0.0	0.4 0.4	0.0 0.0	R 3.2 R 3.0	0.8 0.8	R 1.5 R 1.1	H75	Нορ	0.1 0.0	R 343.9 R 344.0
2020	237.2	69.8	0.4	0.0	0.0	0.4	0.0	R 2.8	0.8	R 1.3	RAA	R 2.7	0.0	H 323.8
2021 2022	268.4 230.5	79.2 83.8	0.4 0.3	0.0 0.0	0.0 0.0	0.4 0.3	0.0 0.0	R 1.6 1.9	0.8 0.8	R 1.4 1.6	R 11.9 13.1	R 2.7 R 2.8 2.5	0.0 0.0	R 366.5 334.5
2022	200.3	33.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.0	10.1	2.3	0.0	007.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Vermont

						Petroleum								
						relioleulli				-	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				M	lillion kilowatthour	s	Thousan	d barrels
		_								_				
1960 1965	137 105	0	2,958 4 285	404 450	82 79 121	3,332 3,789	478 910	1,178 1,059	8,431 10,572	0	873 714	0 0	NA NA	NA NA
1965 1970	105 87	3	4,285 5,741	450 542	121	5.077	910 905	1,059 898	10,572 13,285	Õ	786	0	NA	NA
1971 1972	79 56	3	5,391 5,674	590 699	112 255	5,331 5,677	916 944	944 778	13,285 14,026	0 169	742 942	0 0	NA NA	NA NA
1973	79 56 59 60 31	4	6.047	685	219	5.763	870	711	14.295	1 598	1.059	0	NA	NA
1974 1975	60	5	5,071	703 833	204 177	5,626	526 796	643 502	12,772	2,483 3,561	991	0	NA	NA
1975 1976	31 24	4	4,642 5,470	833 946	1// 142	5,698 6,013	/96 1 250	502 579	12,647 14,400	3,561 3,260	938 1 090	0	NA NA	NA NA
1977	24 29	4	5,360	946	137	6,125	1,250 1,142	579 542 515 633	14,400 14,252	3,260 3,538	1,090 958	Ö	NA	NA
1978	19	4	5,280	1,199 541	134	6,309	979 347	515	14.416	3.241	874	0	NA	NA
1979 1980	24 22 42 50 46 55 80 26	4 4	5,486 4,095	541 666	172 155	5,830 5,437	347 471	506	13,008 11,331	3,449 2,979	930 813	0	NA NA	NA NA
1981	42	4	3,819	626	82 91	5,506	348	430 407	10,811	3,569	1,003	ŏ	0	NA
1982	50	4	2,699	862	91	5,529	359	407	9.946	4,174	846	0	0	NA
1983 1984	46 55	4 5	3,439 4,085	866 646	106 173	5,579 5,821	318 434	482 872	10,791 12,031	2,870 3,336	1,006 949	0	0	NA NA
1985	80	5	4.583	791 867	201	5,813 5,966	122 471	1,065 967	12,574 12,693	2.999	922	ŏ	ŏ	NA
1986	26	5	4,289	867	133	5,966	471	967	12,693	2,058	1,044	0	0	NA
1987 1988	12 11	5 6	4,817 5.144	1,101 1,157	181 143	6,530 6,797	338 238	983 1,022	13,950 14,500	3,536 4,114	995 879	0	0	NA NA
1989	9	6	4.969	1.504	143 220	6.554	191	986	14,424	3,607	1.047	Ő	Ŏ	NA NA
1990	8	7	4,566 4,762	1,401 1,634	180	6,696	237	419 878	14,424 13,499 14,472	3,616	1,365 1,053	0	0	NA
1991 1992	12 20	8	4,762 5,532	1,634	162 116	6,772 6,879	264 277	8/8 6/3	14,472 15 350	4,108 3,735	1,053	0	0	NA NA
1993	6	7	5,539	1,912 1,641	124	7.096	474	643 384 522	15,359 15,259	3,735 3,372	921 981	ő	ő	NA
1994	5	7	5.358	1.663	138	7,154 7,211	281	522	15,117 15,121 15,882	4.316	1,039 973	0	0	NA
1995 1996	3 2	7 7	5,361 5,732	1,673 1,834	127 99	7,211 7,331	215 282	535 603	15,121 15,882	3,859 3,799	973 1 231	0	0	NA NA
1997	110	8	5 344	1 540	106	7,606	323 274	1,153 752	16,073 15,650	4,267 3,358	1,231 1,067	Ő	ő	NA
1998	2	8	5,215	1,777	121	7.510	274	752	15,650	3,358	1.194	.0	0	NA
1999 2000	82 1	8 10	5,441 5,276	1,617 1,769	143 144	7,699 8,394	220 309	612 721	15,732 16,613	4,059 4,548	1,196 1,221	14 12	0	NA NA
2001	2	8	5.371	2,425 2,352	120	8.021	241	806	16 984	4.171	884 1,115	12	ŏ	(s) (s)
2002	1	8	4,866	2,352	65 68	8,164	253 292	466	16,166 16,468	3,963	1,115	10	0	(s)
2003 2004	1	8	5,408 5,861	1,867 1,987	309	8,304 8,407	292 297	530 1,037	10,468	4,444 3,858	1,154	11 11	0	(s)
2005	i	8	5,194	1,987 2,234	309 423	8,408	297 300	693	17,899 17,251	4.072	1,154 1,187 1,211	11	48	(s) 2
2006 2007	1	8	5,085 4,917	2,288 2,152	376 317	8,406 8,354	260 238	591 689 227	17,006 16,668	5,107 4,704	1,519 647	11	68 98	4
2007	0	9	4,917 4,420	2,152 2,263	266	8,354 7,987	238 227	689 227	15,558	4,704 4,895	1 493	11 10	510	6 5
2009	ő	9	4,807	2 423	512	7,964	195	854	15,390 16,755 16,158	5,361	1,493 1,486	12	749	6
2010	0	8 9	4 607	2,353 2,191 2,353	161	7.866	157	1,015	16,158	4.782	1,347 1,425 1,151	14 33 107	685 688	4
2011 2012	0	9 8	4,791 4,227	2,191 2,353	183 185	7,618 7,409	150 93	912 844	15,845 15,111	4,907 4,989	1,425 1 151	33 107	711	15 12
2013	0	10	4 388	2 673	171	7.549	127	924	15,833 16,058	4.846	1,286	236 311	725	59
2014	0	11	4,597 5,092	2,795 2,783	195	7,465 7,417	127 85 44 37 50 28 23	924 921 887	16,058	5,061	1,286 1,175 1,139	311	699	15 12 59 56 71
2015 2016	0	12 12	5,092 4.777	2 399	191 209	7,417 7,410	44 37	790	16,415 15,623	0	1,139 1,078	325 291	683 699	/1 120
2017	ŏ	12	4,737	2.348	151	7,394	50	R 852	15,623 R 15,532 R 15,331 R 15,639	Ö	1,078 1,280	291 305	716	126
2018	0	14	4.744	2,835 2,679	161	6,819	28	R 744 R 676	H 15,331	0	1,268 1,337	373 377	679	65
2019 2020	0	14 13	4,838 4,614	2,679 2,548	170 153	7,253 6,005	23 15	R 800	R 15,639 R 14,136	0	1,337 1,130	377 384	719 594	53 57
2021	0	13	R 4,340 4,278	2,602	208	6,606	34 35	H 780	R 14,569	Ō	1,093	338	660	120 126 65 53 57 R 43 34
2022	Ō	13	4,278	2,506	230	6,592	35	775	14,416	0	1,141	409	664	34

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Vermont (trillion Btu)

					Fossil	fuels						Fossil fuels (as commingled)	
						Petroleum						(as commingied)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	3.5	0.0	17.2	1.5	0.4	17.5	3.0	6.9	46.6	50.1	0.0	17.2	17.5
1965	2.7 2.1 1.9	0.0	25.0	17	0.4	19.9	5.7 5.7 5.8	6.2 5.4	58 9	61.6	0.0	25.0	19.9 26.7
1970	2.1	2.7 3.1	33.4	2.1 2.2	0.7	26.7	5.7	5.4	73.9 73.7	78.7	2.7	33.4	26.7
1971 1972	1.9	3.1	31.4	2.2	0.6 1.4	28.0	5.8	5.6	73.7 77.4	78.7 82.6	3.1	31.4	28.0 29.8
1972	1.4 1.5 1.5	3.8 4.2	33.1 35.2	2.7 2.6	1.4	29.8 30.3	5.9 5.5 3.3	4.5 4.1	77.4 78.9	84.6	3.8 4.2	33.1 35.2	29.0 30.3
1974	1.5	4.8	29.5	2.7	1.1	29.6	3.3	3.7	69.9	76.2	4.8	29.5	30.3 29.6
1975	0.7	4.0	27.0	3.1	1.0	29.9	5.0	2.9 3.3	69.0	73.7	4.0	27.0	29.9
1976	0.6	3.7	31.9	3.6	0.8	31.6	7.9	3.3	79.0	83.3	3.7	31.9	31.6
1977 1978	0.7 0.5	4.0 3.8	31.2 30.8	3.5 4.4	0.8 0.7	32.2 33.1	7.2 6.2	3.1 2.9	78.0 78.2	82.7 82.5	4.0 3.8	31.2 30.8	32.2 33.1
1979	0.6	4.4	32.0	2.0	1.0	30.6	2.2	3.7	71.4	76.4	4.4	32.0	30.6
1980	0.5	4.0	23.9	2.5	0.9	28.6	3.0	2.9	61.6	66.1	4.0	23.9	28.6
1981	1.0	4.4	22.2	2.3	0.5	28.9	2.2	2.5	58.6	64.0	4.4	22.2	28.9
1982 1983	1.3 1.2	4.3 4.3	15.7 20.0	3.2 3.2	0.5	29.0 29.3	2.3 2.0	2.4 2.8	53.1 57.9	58.7 63.4	4.3 4.3	15.7 20.0	29.0 29.3
1983	1.2	4.3 4.8	23.8	3.2	0.6 1.0	29.3 30.6	2.0	2.8 5.2	57.9 65.7	71.9	4.3	20.0 23.8	29.3 30.6
1985	2.0	5.0	26.7	2.5 3.0 3.3	1.1	30.5	2.7 0.8	5.2 6.4 5.9	68.5	75.4	5.0	26.7	30.6 30.5 31.3
1985 1986	0.7	5.0 5.0	25.0	3.3	0.7	31.3	3.0	5.9	69.2	75.4 74.8	5.0	25.0	31.3
1987	0.3	5.1	28.1	4.2	1.0	34.3	2.1	6.0	75.7	81.1	5.1	28.1	34.3 35.7
1988 1989	0.3 0.2	5.5	30.0	4.4 5.7	0.8	35.7	1.5 1.2	6.2	78.5	84.3	5.5	30.0	35.7
1909	0.2	6.1 6.7	28.9 26.6	5.7 5.3	1.2 1.0	34.4 35.2	1.2	6.0 2.4	77.6 72.0	83.9 78.9	6.1 6.7	28.9 26.6	34.4 35.2
1991	0.2 0.3	7.0	27.7	5.3 6.2	0.9	35.6	1.5 1.7	2.4 5.5	77.6	84.8	7.0	27.7	35.6
1992	0.5	7.6	32.2	7.3 6.2	0.6	36.1	1.7	4 0	82.0	90.1	7.6	32.2	36.1
1993	0.1	7.2	32.3	6.2	0.7	37.0	3.0	2.2	81.4	88.8	7.2	32.3	37.0
1994 1995	0.1 0.1	7.3	31.2 31.2	6.3	0.8 0.7	37.3	1.8 1.4	3.2	80.6 80.4	88.0 87.8	7.3	31.2 31.2	37.3
1996	(s)	7.3 7.5	33.4	6.3 7.0	0.7	37.5 38.2	1.8	3.3 3.7	84.6	92.1	7.3 7.5	33.4	37.5 38.2
1997	(s) 2.7	8.3	31.1	5.9	0.6	39.6	2.0	7.3	86.5	97.5	8.3	31.1	39.6
1998	0.1 2.0	7.8	30.3	6.8	0.7	39.1	1.7	4.4 3.7	83.0	90.9	7.8	30.3 31.7	39.1
1999	2.0	8.1	31.7	6.2	0.8	40.1	1.4	3.7	83.8	93.9	8.1	31.7	40.1
2000 2001	(s) 0.1	10.5 7.9	30.7 31.3	6.7 9.2	0.8 0.7	43.7 41.7	1.9 1.5	4.2 4.9	88.1 89.2	98.6 97.2	10.6 8.0	30.7 31.3	43.7 41.7
2002	(s)	8.4	28.3	8.9	0.7	42.4	1.6	2.8	84.5	92.9	8.4	28.3	42.4
2003	(s)	8.4	31.5	7.1	0.4	43.2	1.8	3.1	87.1	95.5	8.5	31.5	43.2 43.7
2004	(s)	8.7	34.1	7.6	1.8	43.7	1.9	6.3	95.3	104.1	8.7	34.1	43.7
2005 2006	(s) (s)	8.4 8.1	30.2 29.5	8.5 8.6	2.4 2.1	43.5 43.3	1.9 1.6	4.1	90.5 88.7	99.0 96.8	8.4	30.2 29.5	43.7 43.6
2006	(8)	8.9	28.4	8.2	1.8	43.3 42.6	1.5	3.5 4.2	86.8	95.7	8.1 8.9	29.5 28.4	43.0
2008	(s) 0.0	8.7	25.5 27.7	8.6	1.5	39.0	1.4 1.2	1.3	77.5	86.1	8.7	25.5 27.8	40.8
2009	0.0	8.7	27.7	9.3	2.9	37.9	1.2	5.4	84.4	93.1	8.7	27.8	40.5
2010	0.0	8.5	26.5 27.5	9.0	0.9	37.5 36.2	1.0	6.5	81.5 79.9	90.0	8.5 8.7	26.6	39.9 38.6
2011 2012	0.0 0.0	8.7 8.3	27.5 24.2	8.4 9.0	1.0 1.0	36.2 35.0	0.9 0.6	5.9 5.5	79.9 75.4	88.6 83.7	8.7 8.3	27.6 24.4	38.6 37.5
2012	0.0	8.3 9.7	24.2 25.0	10.3	1.0	35.0 35.7	0.6	5.5 6.0	75.4 78.7	83.7 88.4	97	24.4 25.3	37.5 38.2
2014	0.0	10.9	25.0 26.2	10.3 10.7	1.1	35.7 35.3	0.8 0.5	6.0 5.9	78.7 79.8	90.7	10.9	25.3 26.5	38.2 37.8
2015	0.0	12.2	29.0	10.7	1.1	35.1 35.0	0.3 0.2	5.7 R 5.1	81.9 77.7	94.1	12.2	29.3 27.5	37.5 37.5
2016	0.0	12.4	27.0	9.2	1.2	35.0	0.2	H 5.1	77.7	90.1	12.4	27.5	37.5
2017 2018	0.0 0.0	12.3 14.2	26.8 26.9	9.0 10.9	0.9 0.9	34.9 32.1	0.3 0.2	5.5 4.8	77.4 75.8	89.7 90.0	12.3 14.2	27.3 27.3	37.4 34.5
2016	0.0	14.2	27.5	10.9	1.0	34.1	0.2	4.6	77.4	R 91.8	14.2	27.9	34.5 36.6
2020	0.0	13.6	26.2 R 24.9	9.8	0.9	28.3	0.1	5.1	70.4 R 72.2	84.0	13.6	26.6 R 25.0	30.3
2021	0.0	13.8	R 24.9	10.0	1.2	31.1	0.2	5.0	R 72.2	R 86.0	13.8	R 25.0	33.4
2022	0.0	14.0	24.5	9.6	1.3	31.0	0.2	5.0	71.5	85.6	14.0	24.7	33.3

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Vermont (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 3.0 R 2.4 R 2.7	7.9	NA	NA	NA	NA	7.9	0.0	NA	NA	R 10.9 R 9.4 R 9.2	R 5.4 R 9.7	0.2	R 66.7
1965 1970	0.0 0.0	H 2.4 R 2.7	6.9 6.5	NA NA	NA NA	NA NA	NA NA	6.9 6.5	0.0 0.0	NA NA	NA NA	H 9.4 R g 2	H 9.7 R 21 5	0.1 0.2	R 80.8 R 109.5
1971 1972	0.0	H 2.5	6.8	NA	NA	NA	NA	6.8	0.0	NA	NA NA	R 9.3 R 9.4 R 9.8 R 9.2	R 21.5 R 24.6 R 25.5 R 10.3 R -1.0	0.2	R 112.8 R 119.6
1972	1.8 17.4	R 3.2 R 3.6	6.2 6.1	NA NA	NA NA	NA NA	NA NA	6.2 6.1	0.0 0.0	NA NA	NA NA	H 9.4	H 25.5 R 10.3	0.3 0.2	H 119.6
1973 1974	27.7	R 3.6 R 3.4	5.8	NA	NA	NA	NA	5.8	0.0	NA	NA	R 9.2	R -1.0	0.3	R 122.3 R 112.3
1975	39.2	R 3.2	6.6	NA	NA	NA	NA	6.6	0.0	NA	NA	R 9.8 R 11.7 R 12.6	R -12.8 R -3.7 R -7.6	0.3	R 110.2 R 127.5 R 126.2 R 130.6 R 127.7
1976 1977	36.0 38.1	R 3.7 R 3.3	8.0 9.4	NA NA	NA NA	NA NA	NA NA	8.0 9.4	0.0 0.0	NA NA	NA NA	R 12.6	R -7.6	0.2 0.3	R 127.5
1978	35.5	Ran	11.4	NA	NA	NA	NA	11.4	0.0	NA	NA	K 1 / /	R -2.1	0.4	R 130.6
1979	37.5 32.5	R 3.2 R 2.8 R 3.4	12.7	NA NA	NA NA	NA NA	NA NA	12.7	0.0 0.0	NA NA	NA NA	R 15.9 R 17.2 R 17.8 R 16.7	n -2.6 R 5 1	0.5	<sup>n</sup> 127.7 R 121.6
1980 1981	39.4	R 3.4	14.4 14.3	0.0	NA	NA	0.0	14.4 14.3	0.0	NA	NA	R 17.8	R -4.9	0.6 0.6	R 121.6 R 116.9
1982 1983	46.2 31.3	R 2.9 R 3.4 R 3.2	13.8 16.0	0.0 0.0	NA NA	NA NA	0.0 0.0	13.8 16.0	0.0 0.0	NA NA	NA 0.0	H 16.7 R 19.4	R-2.6 R-2.6 R 5.1 R-4.9 R-11.7 R 3.6 R-0.2 R 1.7	0.7 0.7	R 110.6 R 118.4 R 128.1 R 130.5
1984	36.2	R 3.2	16.1 17.3	0.0	NA	NA	0.0	16 1	0.0	0.0 0.0	0.0	R 19.4 R 20.4	R -0.2	0.7	R 128.1
1985	31.9	R 3.1 R 3.6	17.3	0.0	NA	NA	0.0	17.3	0.0	0.0	0.0	R 20.4	R 1.7	1.1	R 130.5
1986 1987	21.8 36.9	H 3.6	13.0 12.8	0.0 0.0	NA NA	NA NA	0.0 0.0	13.0 12.8	0.0 0.0	0.0 0.0	0.0 0.0	R 16.5 R 16.2	R 5.6 R -8.0	5.7 7.8	R 124.4 R 134.0
1988	43.6	R 3.4 R 3.0	12.6	0.0	NA	NA	0.0	12.6	0.0	0.0	0.0	H 15.6	R <sub>-</sub> 11.8	9.6	R 141.4
1989 1990	38.2 38.3	R 3.6 R 4.7	9.1 5.3 6.3	0.0 0.0	NA NA	NA NA	0.0 0.0	9.1 5.3 6.3 6.5	0.0 0.0	(s)	0.0 0.0	H 12 7	H -2.5 B 10.7	6.7 5.8	H 138.9
1991	43.1	н з.6	6.3	0.0	NA	NA NA	0.0	6.3	0.0	(s) (s)	0.0	R 9.9 R 9.9	R -15.3	5.8 5.8	R 128.4
1992	39.1	R 3.1	6.5	0.0	NA	NA	0.0	6.5	0.0	(s)	0.0	Raa	R-11.8 R-2.5 R-12.7 R-15.3 R-11.2 R-12.2 R-23.0 R-24.3 R-27.1 R-27.1 R-19.6 R-43.7 R-29.0	7.1	R141.4 R138.9 R120.2 R128.4 R134.6 R132.3 R132.3 R130.0 R135.6 R141.5 R131.4
1993 1994	35.4 45.1	R 3.3 R 3.5	8.1 8.3	0.0 0.0	NA NA	NA NA	0.0 0.0	8.1 8.3	0.0 0.0	(s) (s)	0.0 0.0	R 11.5 R 11.9 R 12.5	R -23 0	8.9 10.4	R 132.3
1995	40.5	R 3.5 R 3.3 R 4.2	9.1	0.0	NA	NA	0.0	9.1	0.0	(s)	0.0 0.0	R 12.5	R -24.3	13.5	R 130.0
1996 1997	39.9 44.8	H 4.2 R 3.6	9.1 9.0	0.0 0.0	NA NA	NA NA	0.0 0.0	9.1 9.0	0.0 0.0	(s)	0.0	R 13.3 R 12.7	H -21.7	12.0 13.6	H 135.6
1998	35.2	R 4 1	8.1	0.0	NA NA	NA NA	0.0	8.1	0.0	(s) (s)	0.0	H 12 2	R -19.6	13.2	R 131.9
1999 2000	42.4 47.4	R 4.1 R 4.2	8.4 8.8	0.0	NA	NA	0.0	8.4 8.8	(s) (s)	(s)	R <sub>P</sub> (s)	R 12.6 R 13.0	R -43.7	26.2	R 131.4 R 143.5
2000	47.4 43.6	R 3.0	8.8 8.0	0.0 0.0	NA (s)	NA NA	0.0 0.0	8.8 8.0	(s) (s)	(s)	⊓ (S) R (S)	H 11 1	R -17 7	13.4 10.2	R 144.4
2002	41.4	R 3.8	11.2	0.0	(s)	NA	0.0	11.2	(s) (s)	(s)	R (s)	R 15.1 R 16.2	R -13.9	8.3	H 1/2 Q
2003 2004	46.3 40.2	R 3.9 R 4.1	12.2 10.0	0.0 0.0	(s)	NA NA	0.0 0.0	12.2 10.0	(s) (s)	(s)	H (s)	H 16.2 H 14.1	H <sub>-</sub> 18.0	6.5 6.6	H 146.6
2004	42.5	R 4.1	12.0	0.0	(s)	NA NA	0.0	12.2	(s)	(s) _(s)	R (s)	H 16.4	R -10.6	7.2	R 154.5
2006	53.3	R 4.1 R 5.2 R 2.2	12.4 12.1	0.2	(s)	NA	0.0	12.6 12.5	(s)	R (s)	0.0 0.0 (s)	R 17.9 R 14.8	R -17.7 R -13.9 R -18.0 R -9.1 R -10.6 R -25.1 R -16.6	8.3 8.5	R 146.6 R 156.0 R 154.5 R 151.2 R 151.6
2007 2008	49.3 51.2	R 5 1	12.1 12.1	0.3 1.8	(S) (S)	NA NA	0.0 0.0	12.5 13.9	(S) (S)	0.1 0.1	⊓ (S) R (S)	R 19.1	11-16.6 R -24 9	8.5 8.5	1 151.6 R 140.1
2009	56.1	R 5.1 R 4.6	12.1 16.8	2.6 2.4	(s)	NA	0.0	13.9 19.5	(s)	0.1	R (s)	R 24.7 R 26.2	R -24.9 R -31.6 R -24.4 R -26.6	8.7	R 140.1 R 151.0
2010 2011	50.0 51.4	H 4.6 R 4.9	19.0 16.2	2.4 2.4	(s) 0.1	NA 0.0	0.0 0.0	21.4 18.7	(s) (s)	0.1 R 0.1	H (s)	H 26.2 R 23.8	H -24.4	8.3 8.6	H 150.0
2012	51.4 52.3	R 3 9	14.0	2.4	0.1	0.0	0.0	16.7	(S) (S)	R 0.2	R 0.4	R 21.0	R -69.4	39.2	R 126.8
2012 2013	52.3 50.6	R 4 4	14.0 18.3	2.5 2.5	0.3	0.0	0.0	16.6 21.1	(s)	R 0.2	R 0.8	R 21.0 R 26.6	R -69.4 R -71.3 R -70.5	39.2 40.1	R 134.3
2014 2015	52.9 0.0	R 4.0 R 3.9	18.0 R 24.3	2.4 2.4	0.3 0.4	0.0 0.0	0.0 0.0	20.8 R 27.0	(s) (s)	R 0.2 R 0.2 R 0.3 R 0.4	R 1.1 R 1.1	R 26.1 R 32.5	H -27 N	38.1 36.8	R 150.0 R 145.7 R 126.8 R 134.3 R 137.3 R 136.5
2016	0.0	R 3 7	R 21.8 R 21.3	2.4	0.4 0.6 0.7	0.0	0.0	R 24.9 R 24.5	(s)	R 0.6 R 0.8	R 1.0 R 1.0	R 30 2	R -20.0 R -26.1	30.6	R 130.8 R 129.5 R 133.4 R 132.9 R 119.3
2017	0.0 0.0	R 4.4 R 4.3	R 21.3 R 24.6	2.5	0.7 0.4	0.0	0.0	R 24.5 R 27.3	(s) (s)	R 0.8 R 0.9	R 1.0 R 1.3	R 30.8 R 33.8	H -26.1	35.3 33.2	H 129.5
2018 2019	0.0	R 4.6	R 23.2	2.4 2.5	0.4	0.0 0.0	0.0 0.0	R 26.0	(S)	H 1 1	R 1.3	R 33 0	R -23.6 R -40.1	48.2	R 132.9
2020	0.0	R 3.9	R 23.2 R 18.5	2.5 2.1	0.3 0.3	0.0	0.0	R 20.9	Š	R 1.3	R 1.3 R 1.3	R 27.4	R -40.1 R -40.0 R -39.4	48.0	R 119.3
2021 2022	0.0 0.0	R 3.7 3.9	R 19.3 21.3	2.3 2.3	0.2 0.2	0.0 0.0	0.0 0.0	R 21.8 23.8	(s) (s)	R 1.3 R 1.3 1.5	R 1.2 1.4	R 28.1 30.6	<sup>H</sup> -39.4 -38.2	47.4 46.8	R 122.1 124.8
	0.0	0.9	21.0	2.0	0.2	0.0	0.0	20.0	(3)	1.5	1.4	50.0	-00.2	70.0	127.0

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates

are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Vermont

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet	1		1	housand barrels	5	1		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products <sup>j</sup>	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	118	0	2,949	404	82	3,332	477	1,178	8,421	64					875			
1970	32	3	5,474	542	121	5,077	882	898	12,994	62					2,612			
1980	13	4	4,050	666	137	5,437	471	506	11,267	70					3,951			
1990 2000	8	6 9	4,558 5,116	1,401 1,769	180 144	6,696 8,394	237 309	419 721	13,491 16,454	17 20					4,716 5,639			
2005	1	8	5,110	2,234	423	8,408	300	693	17,239	21					5,883			
2006	1	8	5,077	2,288	376	8,406	260	591	16,998	22					5,795			
2007	1	9	4,909	2,152	317	8,354	238	689	16,659	2					5,864			
2008	0	9	4,414	2,263	266	7,987	226	227	15,383	21					5,741			
2009 2010	0	9	4,804 4,602	2,423 2,353	512 161	7,964 7,866	194 157	854 1,015	16,751 16,153	25 25					5,497 5,595			
2011	0	9	4,785	2,191	183	7,618	149	912	15,838	24					5,550			
2012	0	8	4,225	2,353	185	7,409	93	844	15,108	23					5,511			
2013	0	10	4,380	2,673	171	7,549	127	924	15,825	0					5,588			
2014	0	11	4,589	2,795	195	7,465	85	921	16,051	0					5,570			
2015 2016	0	12 12	5,087 4,769	2,783 2,399	191 209	7,417 7,410	44 37	887 790	16,410 15,615	0					5,521 5,516			
2017	0	12	4,709	2,348	151	7,394	50	R 852	R 15,517	0					5,424			
2018	0	14	4,736	2,835	161	6,819	28	R 744	R 15,324	ő					5,531			
2019	0	14	4,835	2,679	170	7,253	23	R 676	R 15,636	0					5,428			
2020	0	13	4,610 R 4.334	2,548	153	6,005	15	R 800	R 14,131	0					5,331			
2021 2022	0	13 13	11 4,334 4.267	2,602 2,506	208 230	6,606 6,592	34 35	R 780 775	R 14,563 14,405	0					5,413 5,470			
2022	0	10	4,207	2,500	230	0,332		773	Trillion						3,470			
1960	3.0	0.0	17.2	1.5	0.4	17.5	3.0	6.9	46.6	R 0.2 R 0.2	7.9			NA	3.0		<sup>R</sup> 6.0 <sup>R</sup> 18.3	R 66.7
1970 1980	0.8 0.3	2.7 3.7	31.9 23.6	2.1 2.5	0.7 0.8	26.7 28.6	5.5 3.0	5.4 2.9	72.2 61.3	R 0.2	6.5 13.9			NA NA	8.9 13.5		R 28.7	<sup>R</sup> 109.5 <sup>R</sup> 121.6
1990	0.2	6.0	26.6	5.3	1.0	35.2	1.5	2.4	72.0	R 0.1	4.3			(s)	16.1	R 98.6	R 21.6	R 120.2
2000	(s)	9.5	29.8	6.7	0.8	43.7	1.9	4.2	87.1	R 0.1	4.9			(s)	19.2	R 120.9	H 22.6	R 143.5
2005	(s)	8.4	30.1	8.5	2.4	43.7	1.9	4.1	90.6	R <sub>0.1</sub>	6.8			_ (s)	20.1	R 126.0	R 28.6	R 154.5
2006	(s)	8.0	29.5	8.6	2.1	43.6	1.6	3.5	88.9	R 0.1	6.5			R (s)	19.8		R 27.7	R 151.2
2007 2008	(s) 0.0	8.8 8.6	28.4 25.5	8.2 8.6	1.8 1.5	43.0 40.8	1.5 1.4	4.2 1.3	87.0 79.2	(s) R 0.1	6.0 6.5			0.1	20.0 19.6	122.1 R 114.1	R 29.5 R 26.0	R 151.6 R 140.1
2009	0.0	8.6	27.8	9.3	2.9	40.5	1.4	5.4	87.1	R 0.1	11.2			0.1	18.8	R 125 8	R 25.2	R 151.1
2010	0.0	8.4	26.6	9.0	0.9	39.9	1.0	6.5	83.9	R <sub>0.1</sub>	12.5			0.1	19.1	R 124.1	R 25.9	R 150.0
2011	0.0	8.6	27.6	8.4	1.0	38.6	0.9	5.9	82.4	R <sub>0.1</sub>	10.6			R 0.1	18.9	R 120 9	R 25.0	R 145.8
2012	0.0	8.3	24.4	9.0	1.0	37.5	0.6	5.5	78.0	R 0.1	9.1			R 0.1	18.8	R 114.4	R 12.5	R 126.9
2013 2014	0.0	9.7 10.8	25.2 26.4	10.3 10.7	1.0 1.1	38.2 37.8	0.8 0.5	6.0 5.9	81.5 82.5	0.0	11.5 11.7			R <sub>0.2</sub> R <sub>0.2</sub>	19.1 19.0	R 121.9 R 124.2	R 12.4 R 13.1	R 134.4 R 137.3
2014	0.0	12.2	29.3	10.7	1.1	37.5	0.3	5.9	84.6	0.0	R 17.8	0.0		R 0.3	18.8		R 2.8	R 136.5
2016	0.0	12.4	27.5	9.2	1.2	37.5	0.2	R 5.1	80.6	0.0	R 15.2	0.0		R 0.3	18.8		R 3.3	R 130.7
2017	0.0	12.3	27.2	9.0	0.9	37.4	0.3	5.5	80.2	0.0	R 15.2		(s)	R 0.5	18.5	R 126.7	R 2.6	R 129.3
2018	0.0	14.2	27.3	10.9	0.9	34.5	0.2	4.8	78.5	0.0	R 18.5			R 0.5	18.9	R 130.7	R 2.8	R 133.4
2019	0.0	14.4	27.8	10.3	1.0	36.6	0.1	4.3	80.2 B 70.0	0.0	R 17.3			R 0.6	18.5	R 131.1	R 1.9 R 2.0	R 132.9
2020 2021	0.0 0.0	13.6 13.8	26.5 R 25.0	9.8 10.0	0.9 1.2	30.3 33.4	0.1 0.2	5.1 5.0	R 72.8 R 74.7	0.0	R 12.1 R 12.2	0.0		R <sub>0.7</sub> R <sub>0.7</sub>	18.2 18.5		R 2.0	R 119.3 R 122.1
2021	0.0	14.0	24.6	9.6	1.3	33.3	0.2	5.0	74.7	0.0	15.3			0.7	18.7		2.0	124.8
	3.0						J				.0.0		(0)					

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Vermont

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL °	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	45	0	2.044	208	701	2,953 4,014 4,596 3,783 2,688 3,481 3,380				451			
1960 1965 1970 1975	45 27 16	0	2,044 3,110 3,873 3,101	208 255 287	701 649 436 235	4,014				678 1,216			
1970	16	1	3,873	287	436	4,596				1,216			
19/5	5 2	1	3,101	447	235	3,783				1,427			
1980 1985 1990	10	1	2,171 2,482 2,293	287 484 894	230 514	3,481				1,781 1,538 1,809			
1990	1	2	2,293	894	193	3,380				1,809			
1995 2000	(s)	2	2,331 2,450 2,257 2,119 2,157	985	180 326	3,487 3,836				1,973 2,037			
2000	(s)	3	2,450	1,059	326	3,836				2,037			
2005 2006 2007	(S)	3	2,257	1,456 1,354 1,286	381 355 248	4,094 3,828 3,691 3,269 3,752 3,366 3,162 2,788 3,240				2,189 2,142 2,170			
2007	(s)	3	2.157	1.286	248	3,691				2,170			
2008 2009 2010	Ó	3	1,869 2,022 1,675	1.291	109 168 150	3,269				2,133 2,122 2,128			
2009	0	3	2,022	1,561 1,541	168	3,752				2,122			
2010 2011	0	3	1,675 1,769	1,541 1,289	150	3,366				2,128			
2011	0	3	1,769	1,308	104 51	3,102 2,788				2,125 2,095		 	
2012 2013	ŏ	3	1,428 1,622	1.568	104 51 50	3.240				2,125 2,095 2,125			
2014 2015	0	4	1,767 1,885	1,660 1,609	79 65	3,507				2,121			
2015	0	4	1,885	1,609	65	3,559				2,089			
2016	0	4	1,738	1,447	86	3,540 3,557 3,559 3,271 3,518 3,738 3,902				2,121 2,089 2,056 2,023 2,116			
2017 2018 2019	0	4	1,784 1,831 1,996	1,673 1,849 1,839	60 58 67	3,316				2,023			
2019	ŏ	4	1,996	1,839	67	3,902				2.082			
2020 2021	0	4	1,870 1,677	1,576 1,692	72	3,518 3,429				2,157 2,174			
2021 2022	0	4	1,677 1,668	1,692	72 60 53	3,429 3,267				2,174 2,187			
2022	U	4	1,008	1,545	53	3,267				2,187			
							Trillion Btu						
1960 1965 1970	1.1	0.0	11.9	0.8	4.0 3.7 2.5 1.3	16.7	3.5 2.7 2.1 2.5 4.3 3.1 2.0 2.2	NA NA NA	NA	1.5 2.3 4.1	22.8	R 3.1 R 4.6 R 8.5 R 9.9 R 10.7 R 8.3 R 7.5 R 8.2 R 10.6 R 10.9 R 9.7	H 25.9
1965	0.7 0.4	0.0 1.1	18.1 22.6	1.0 1.1	3.7	22.8 26.1	2.7	NA NA	NA NA	2.3	28.5 33.8	7 4.6 R o s	n 33.0
1975	0.4	1.1	18.1	1.7	1.3	21.1	2.1	NA NA	NA NA	4.9	29.7	Rgg	R 39 6
1975 1980	0.1	1.3	12.6	1.1	1.3	15.1	4.3	NA	NA NA	61	26.8	R 12.9	R 39.7
1985 1990 1995	0.2	1.4	14.5	1.9	2.9	19.2 17.9 18.3	3.1	NA	NA	5.2 6.2 6.7	29.3 28.2 29.5	R <sub>_10.7</sub>	R 39.9
1990	(s)	2.1 2.3	13.4 13.5	3.4 3.8	1.1 1.0	17.9	2.0	0.0 0.0	(s) (s)	6.2	28.2	H 8.3	H 36.5
2000	(s) (s)	2.3	13.5	3.8 4.1	1.0	18.3	2.2	0.0	(S) (S)	6.7 7.0	29.5 31.6	'' 7.5 R g 2	1137.0 R 30.8
2000 2005 2006 2007 2008	(s)	2.9 3.1	14.3 13.1	5.6	1.8 2.2	20.2 20.9	1.6 3.9 3.5 3.8 4.3 8.5 9.2 8.9 7.4 9.7	(s) (s) (s) (s)	(s)	7.0	35.4	R 10.6	R 46 0
2006	(s)	2.9 3.2 3.1 3.2	12.3	5.2	2.0 1.4	19.5 18.8 16.4	3.5	(s)	(s) 0.1	7.3	33.2 33.3 31.1	R 10.3	R 43.5
2007	(s)	3.2	12.3 12.5 10.8	4.9	1.4	18.8	3.8	(s)		7.4	33.3	R <sub>10.9</sub>	R 44.3
2008	0.0	3.1	10.8	5.0	0.6	16.4 18.6	4.3	(s) (s) (s)	0.1	7.3	31.1	n 9.7	n 40.8
2009	0.0 0.0	3.2	11.7 9.7	6.0 5.9	1.0 0.9	16.6	8.5	(S)	0.1 0.1	7.2	37.7 36.1	119.7 R g g	R 47.5
2010 2011 2012	0.0	3.1	10.2	5.0	0.6	16.4 15.7 13.6	8.9	(s)		7.3	R 35.2	R 9.8 R 9.6 R 4.8 R 4.7	R 44 8
2012	0.0	3.0	8.2	5.0	0.3	13.6	7.4	(s)	0.1 <u>P</u> 0.1	7.1	R 31.3	R 4.8	R 36.1
2013 2014	0.0	3.2 3.0 3.5 3.9	9.3	6.0	0.3	15.7 17.0	9.7	(s) (s) (s) (s) (s)	R 0.1 R 0.2 R 0.2 R 0.3 R 0.3	7.0 7.5 7.3 7.4 7.2 7.3 7.2 7.1 7.3 7.2 7.1 7.0 6.9	36.1 R 35.2 R 31.3 R 36.2 R 38.1	H 4.7	H 41.0
2014	0.0 0.0	3.9	10.2	6.4 6.2	0.4 0.4	17.0 17.4	9.8 B 14.0	(s)	n 0.2	7.2	n 38.1	R 5.0	<sup>n</sup> 43.1
2015 2016 2017	0.0	3.9 3.6 3.6	10.9 10.0 10.3	5.6	0.4	17.4	R 12.4	(8)	R 0.2	7.1	43.6 R 39.4 R 40.4	R 1.0 R 1.2 R 1.0	R 40.6
2017	0.0	3.6	10.3	6.4	0.5 0.3	16.0 17.0	R 12.5	(s)	R 0.3	6.9	R 40.4	R 1.0	R 41.4
2018 2019	0.0	4.2	10.5	7.1	0.3	18.0 18.9	R 15.8	(s) (s) (s) (s)	R 0.4 R 0.4	7.2 7.1	H 45 6	H 1.1	R 46.7
2019	0.0	4.3	11.5	7.1	0.4	18.9	H 14.8	(s)	H 0.4	7.1	H 45.6	R 0.7	H 46.3
2020 2021	0.0	4.0 3.9	10.8	6.1 6.5	0.4	1/.2 16.5	9.8 R 14.9 R 12.4 R 12.5 R 15.8 R 14.8 R 9.6 R 9.6	(S)	n 0.5 R n s	7.4 7.4	R 45.6 R 38.6 R 38.0	R 0.8 R 0.9	n 39.4 R 38 o
2021	0.0 0.0	3.9 4.1	9.7 9.6	5.9	0.3 0.3	17.2 16.5 15.9	12.6	(s) (s) (s)	R 0.5 R 0.5 0.5	7.4 7.4 7.5	40.6	0.8	R 25.9 R 33.0 R 39.6 R 39.7 R 39.9 R 36.5 R 37.0 R 48.5 R 44.3 R 40.8 R 47.5 R 44.8 R 45.1 R 44.7 R 44.7 R 44.7 R 44.7 R 44.7 R 44.7 R 44.7 R 45.3 R 44.7 R 46.3 R 38.9 R 46.3 R 38.9 R 46.3
	3.3		5.5	3.0	0.0	. 5.0	.2.0	(0)	0.0	0		0.0	

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Vermont

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	'		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	31	0	418	96	43	127	225 422	909	NA			NA	233	==	==	
1965 1970	21 13	0	636 792	117 132	40 27	24 25	422 414	1,239 1,390	NA NA			NA NA	303 609			
1975	11	i	634	206	15	30	373	1,257	NA			NA	709			
1980 1985	9 36	1 2	620 591	132 223	44 36	33 40	237 24	1,065 914	NA NA			NA NA	923 959		 	
1990	6	2	669	411	12	4 <u>1</u>	119	1.253	0			(s)	1,526			
1995 2000	3 1	3	692 1,040	453 487	14 23	7	71 101	1,236 1,659	0			(s) (s)	1,647 1,956			
2005	1	3	858	511	31	7	145	1,552	0			(s)	2,051			
2006 2007	1	2	812 766	516 642	26 27	7	130 87	1,491 1,529	0			(s) (s)	2,027 2,059			
2008	0	2	561	778	6	7	109 89	1,461	0			(s)	2,043			
2009 2010	0	2 2	701 668	766 736	14 8	7	89 59	1,576 1,477	0			(s) (s)	1,991 2,021			
2011 2012	0	2 2	647 527	826 971	9	7	59 53 36	1,541 1,544	0		==	`2	2,009 1,994			
2013	0	5	567	996	3	7	37 24	1,610	0			5	2,017			
2014 2015	0	5 6	619 826	1,045 1,094	6 5	7 131	24 17	1,701 2,073	0			8 18	2,031 2,011			
2016	0	6	576	896	6	133	19	1,629	0			24	2,014			
2017 2018	0	6 7	555 548	548 907	4 3	135 140	27 11	1,269 1,609	0			40 47	1,977 2,004		 	
2019	ő	7	558	796	6	141	6	1,507	ŏ			57	1,934			
2020 2021	0	7 7	525 582	905 858	7 4	141 143	8 15	1,587 R 1,601	0			66 70	1,806 1,867			
2022	ŏ	7	572	910	4	147	15	1,647	ő			79	1,916			
								Tril	lion Btu							
1960 1965	0.8 0.5	0.0	2.4	0.4	0.2	0.7	1.4 2.7	5.1 7.2	NA	0.1	NA	NA	0.8	6.8	R 1.6	R 8.4 R 10.8
1965 1970	0.5	0.0 0.6	3.7 4.6	0.4 0.5	0.2 0.2	0.1 0.1	2.6	7.2 8.0	NA NA	0.1 (s)	NA NA	NA NA	1.0 2.1	8.7 11.0	R 2.0 R 4.3	H 10.8 R 15.2
1975	0.3 0.2 0.2	0.8	3.7	0.8	0.1	0.2	2.3	7.1	NA	(s) 0.1	NA	NA	2.1 2.4 3.1	10.5	R 4.9	R 15.2 R 15.5
1980 1985	0.2	0.8 1.6	3.6 3.4	0.5 0.9	0.2 0.2	0.2 0.2	1.5 0.1	6.0 4.9	NA NA	0.1	NA NA	NA NA	3.1	10.3 10.6	R 6.7 R 6.7	R 17.0 R 17.3
1990 1995	0.1	2.0	3.9 4.0	1.6	0.1 0.1	0.2	0.7	6.5	0.0	0.2 0.3	0.0 0.0	(s)	5.2 5.6	14.1 15.0	R 7.0 R 6.3	R 21.1 R 21.2
2000	0.1 (s)	2.7 2.6	4.0 6.1	1.7 1.9	0.1	(s) (s)	0.4 0.6	6.3 8.7	0.0 0.0	0.3	0.0	(s) (s)	6.7	18.3	R 7 8	H 26.2
2005 2006	(s)	2.6	5.0	2.0	0.2	(s)	0.9 0.8	8.1 7.7	0.0 0.0	0.6 0.6	0.0 0.0	(s)	7.0	18.3 17.6	R 10.0 R 9.7	R 28.3
2006	(s) (s)	2.4 2.6	4.7 4.4	2.0 2.5	0.1 0.2	(s) (s)	0.5	7.7	0.0	0.6	0.0	(s) (s)	6.9 7.0	17.9	R 10.4 R 9.2	R 27.3 R 28.3
2008 2009	0.ó 0.0	2.5	3.2 4.1	3.0	(s) 0.1	(s)	0.7 0.6	7.0 7.7	0.0 0.0	0.7 1.2	0.0 0.0	(s)	7.0 6.8	17.1 18.2	R 9.2 R 9.1	R 26.4 R 27.3
2010	0.0	2.5 2.5 2.4	3.9	2.9 2.8	(s)	(s)	0.4	7.1	0.0	1.2	0.0	(s)	6.9	17.6	R 9.4	H 27.0
2011	0.0	2.5 2.3	3.7	3.2	(s)	(s)	0.3	7.3	0.0	1.3 1.2	0.0	(s)	6.9	18.0	R 9.0 R 4.5	R 27.0 R 21.9
2012 2013	0.0 0.0	4.8	3.0 3.3	3.7 3.8	(s) (s)	(s) (s)	0.2 0.2	7.0 7.4	0.0 0.0	1.4	0.0 0.0	R (s)	6.8 6.9	17.4 20.5	R <u>4</u> 5	H 24 9
2014	0.0 0.0	4.9 6.1	3.6 4.8	4.0 4.2	(s) (s)	(s)	0.2	7.8	0.0 0.0	1.4 R 2.4	0.0	R (s) P 0.1	6.9 6.9	21.1 R 25.1	R 4.8 R 1.0	R 25.8 R 26.1
2015 2016	0.0	6.4	3.3	3.4	(S) (S)	0.7 0.7	0.1 0.1	9.8 7.6	0.0	R 2.4 R 2.4 R 2.5	0.0	R 0 1	6.9	Rogg	R <sub>12</sub>	R 24.5
2017	0.0	6.4	3.2 3.2	2.1	(s)	0.7 0.7	0.2	6.2	0.0 0.0	R 2.5 2.5	0.0	R 0.1 R 0.2	6.7	R 21.9 R 24.6	R 1.0 R 1.0	R 22.9 R 25.6
2018 2019	0.0 0.0	7.6 7.6	3.2	3.5 3.1	(s) (s)	0.7	0.1 (s) 0.1	7.4 7.1	0.0	2.5 2.3 2.3	0.0	R 0.2	6.8 6.6	H 23 8	H07	R 24 4
2020 2021	0.0 0.0	7.3 7.8	3.0 3.4	3.5 3.3	(s)	0.7 0.7	0.1 0.1	7.3 7.5	0.0 0.0	2.3 2.3	0.0 0.0	R 0.2 R 0.2	6.2 6.4	R 23.3 R 24.2	R 0.7 R 0.8	R 23.9 R 25.0
2021	0.0	7.8	3.4	3.5	(S)	0.7	0.1	7.5 7.6	0.0	2.5	0.0	0.3	6.5	24.6	0.7	25.3
					. , ,											

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Vermont

					Petrol	leum				Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	41	0	234	99	0	252	346	931	64				NA	191			
1960 1965	14	ŏ	234 316	99 77	100	252 484 466	346 301 372	931 1,278	64 53				NA	352			
1970	3	1	463	121	68	466	372	1.489	62				NA	787			
1975 1980	2	2	364 501	179 245	77	421 235	196 156	1,237 1,155	67				NA				
1980	2	2 2	500	70	19 117	233	100	1,133	70 70				NA NA	1,247 1,518			
1990	1	2	554	85	81	98 115	445 146	981	17				(s)	1,381			
1995	0	2	328	220	89	144	278 277	981 1,058 1,166	18				(s)	1,381 1,484			
2000	0	4	381	223	79	207	277	1,166	20				(s)	1,646			
2005	0	3	560	259	235	156 130	210	1,419	21				(s)	1,644			
2006 2007	0	3	509 396	411 220	264 198	150	149	1,463 1,318	22				(S)	1,626			
2008	ő	3	519	165	115	151 117	352 59 622	976	2 21				(s)	1,635 1,565 1,383			
2009	Ö	3	533	91	114	105	622	1.466	25				(s)	1,383			
2010	0	3	551	74	149	97	798	1 668	25				(s)	1,446			
2011	0	3	678	74 70	149	96 56 90	743 739 819	1,740 1,600 1,642	24				(s)	1,417			
2012 2013	0	3	608 497	107	127 129	56	739	1,600	23 0				(S)	1,422 1,446			
2013	0	2	539	86	124	61	786	1,042	0				(s)	1,418			
2015	ŏ	2	539 521	86 75	124 95	61 27	786 759 R 643	1,595 1,477	ŏ				(s)	1,422			
2016	0	2	550	52	91	14	R 643	1,350 R 1,560 R 1,425 R 1,324	0				(s)	1,446			
2017	0	2	591	124	92	16	H 736	H 1,560	0				2	1,424			
2018 2019	0	2 2	603 619	77 41	93 90	17	n 634	n 1,425	0				2	1,411 1,412			
2020	0	2	696	65	91	16 7	R 736 R 634 R 557 R 682	H 1 540	0				2	1,369			
2021	Ŏ	2	571	50	90	17	<sup>rt</sup> 648	H 1,377	ŏ				2	1,371			
2022	0	2	578	49	93	18	654	1,392	0				2	1,367			
									Trillion Bt	u							
1960	1.1	0.0	1.4	0.4	0.0	1.6 3.0	2.2	5.5 7.6	R 0.2 R 0.2	4.4	NA	NA	NA	0.7	R 11.9	R 1.3	R 13.2 R 15.8 R 22.7 R 21.8 R 31.0
1965	0.4	0.0	1.8	0.3	0.5	3.0	1.9	7.6	H 0.2	4.1	NA	NA	NA		R 13.5	R 2.4	H 15.8
1970	0.1	1.1	2.7	0.4	0.4	2.9	2.4	8.8	R 0.2 R 0.2		NA NA	NA NA	NA	2.7	R 17.2 R 15.8	R 5.5 R 6.0	R 22.7
1975 1980	0.1 (s)	1.5 1.6	2.7 2.1 2.9	0.6 0.9	0.4 0.1	2.9 2.6 1.5	1.1 0.9	8.8 6.9 6.3 7.2 5.5	Rno	4.1 9.5	NA NA	NA NA	NA NA	2.9 4.3	R 21 9	R 9 1	R 31 0
1985	0.1	1.9	2.9	0.2	0.6	0.6	2.8	7.2	R 0.2 R 0.1 R 0.1	11.2	0.0	NA	NA	5.2	H 25 8	R 10.5	R 36.3
1990	(s)	1.8	2.9 3.2	0.3	0.4	0.7	0.8	5.5	R <sub>0.1</sub>	2.1	0.0	0.0	(s)	4.7	R 14.3 R 16.3	R 6.3	R 36.3 R 20.6 R 22.0 R 25.7 R 26.2 R 26.1 R 25.7 R 22.3 R 24.2 R 26.9 R 25.0 R 21.0
1995	0.0	2.1	1.9	0.8	0.5	0.9	1.8	5.9	H 0.1	3.2	0.0	0.0	(s)	5.1	H 16.3	R 5.6	H 22.0
2000 2005	0.0 0.0	4.0 2.6	2.2 3.3	0.8 0.9	0.4 1.2	1.3 1.0	1.7 1.3	5.9 6.4 7.7 7.5 7.3 5.3	R 0.1 R 0.1	3.0 2.2 2.5	0.0 0.0	0.0	(s)	5.6 5.6 5.5	R 19.1 R 18.2 R 18.4	R 6.6 R 8.0 R 7.8	H 25.7
2005	0.0	2.8	3.0	1.4	1.4	0.8	1.0	7.7	R 0.1	2.2	0.0	0.0	(s)	5.5	R 18.4	R 7 8	R 26.1
2007	0.0	3.0	2.3	0.7	1.0	1.0	2.3	7.3		1.6	0.0	0.0	(s)	5.6	17.5 R 15.2 R 17.9 R 20.2	Hgg	R 25.7
2007 2008	0.0	3.0	2.3 3.0	0.6	0.6	0.7	2.3 0.4	5.3	(s) R 0.1 R 0.1	1.6 1.5	0.0	0.0	(s)	5.6 5.3	R 15.2	R 7.1 R 6.4 R 6.7	R 22.3
2009	0.0	2.9	3.1	0.3	0.6	0.7	4.1	8.7	H 0.1	14	0.0	0.0	(s)	4.7	H 17.9	H 6.4	H 24.2
2010 2011	0.0 0.0	2.9 2.8	3.2 3.9	0.3 0.3	0.8 0.8	0.6 0.6	5.3 4.9	10.1 10.5	R 0.1	2.2 0.4	0.0 0.0	0.0	(S)	4.9 4.8	R 10.7	R 6.4	R 26.9
2011	0.0	2.6	3.5	0.3	0.6	0.6	4.9	9.6	R 0.1 R 0.1	0.4	0.0	0.0	(8)	4.9	R 18.7 R 17.8	R 3.2	R 21 0
2012	0.0	1.3	2.9	0.4	0.7	0.6	5.4	9.9	0.0	0.4	0.0	0.0	(s)	4.9	16.6	Rgg	R 19.8 R 20.1 R 17.0 R 16.5 R 17.3 R 16.6
2014	0.0	1.9	3.1	0.3	0.6	0.4	5.1	9.9 9.6	0.0	0.4	0.0	0.0	(s)	4.8	16.8	Raa	R 20.1
2015	0.0	2.1 2.2	3.0	0.3	0.5	0.2	5.0	8.9	0.0	0.4	0.0	0.0	(s)	4.9	16.3	R 0.7 R 0.9	R 17.0
2016	0.0	2.2	3.2	0.2	0.5	0.1	4.2	8.1 9.3	0.0		0.0	0.0	(s)	4.9	15.7	H 0.9 P 0.7	H 16.5
2017 2018	0.0 0.0	2.3 2.4	3.4 3.5	0.5 0.3	0.5 0.5	0.1 0.1	4.8 4.1	9.3 8.5	0.0 0.0	0.2 0.2	0.0 0.0	0.0 0.0	(S)	4.9 4.8	16.6 15.9	R 0.7	17.3 R 16.6
2019	0.0	2.5	3.6	0.3	0.5	0.1	3.6	7.9	0.0	0.2	0.0	0.0	(s)	4.8	15.4	Ros	R 15.9
2020	0.0	2.3	4.0	0.2	0.5	(s) 0.1	H 4.5	7.9 9.2 8.3	0.0	0.2	0.0	0.0	(s)	4.7 4.7	16.4	R 0.5 R 0.6	R 15.9 R 16.9 R 15.8
2021	0.0	2.1	3.3	0.2	0.5	0.1	4.2	8.3	0.0	0.2	0.0	0.0	(s)	4.7	15.3	R 0.6	R 15.8
2022	0.0	2.3	3.3	0.2	0.5	0.1	4.3	8.4	0.0	0.2	0.0	0.0	(s)	4.7	15.5	0.5	16.0

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Vermont

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thous	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
1960	1	0	19	254	(s)	82	68	3,205	0	3,629	0			
1965	(s) (s)	0	19 25	254 185 346	(s) 1	82 79	68 44 49 45 52 47 53	3,665	Ö	4,000	0			
1970		0	14 11	346	3	121	49	4,985	2	5,519	0			
1975 1980	(s) 0	0	25	504 757	2	129 137	52	5,591 5,386	0	6,284 6,359	0			
1985	Ō	(s)	22 15 12	977	13 11	201	47	5.656	Ö	6,916	Ö			
1990 1995	0	(s)	15	1,043	11 15	180	53	6,574	3	7,878	0			
2000	0	(s) (s)	12 40	1,981 1,245	0	127 144	51 54	7,116 8,309	0	9,302 9,793	0			
2005	ŏ	(s)	40 26	1,245 1,506	š	144 423	54 46	8,166	ŏ	9,793 10,174	ŏ			
2006	0	(s)	16	1,636	8	376	45 46	8,135	0	10,216	0			
2007 2008	0	(s)	16 10	1,589	4	317 266	46	8,149	0	10,122 9,677	0			
2009	0	(s) (s)	11	1,464 1,548	29 5	512	43 38	7,865 7,843	0	9,957	0			
2010	Ō	(s)	9	1.709	2	161	50 47 43	7.710	Ö	9.641	Ō			
2011	0	(s)	8	1,691	2	183 185	47	7,463 7,276	0	9,394	0			
2012 2013	0	(s) (s)	8	1,661	2	171	43	7,276 7,413	0	9,176	0			
2014	ő	(s)	4	1,694 1,664	4	195	45 45 51 R 49	7,413 7,335	ő	9,333 9,248	ő			
2015	0	(s)	7	1.856	5	191	_ 51	7,191	0	9.301	0			
2016	0	(s)	7	1,906 1,792	5 2	209 151	H 49	7,186	5	9,366	0			
2017 2018	0 0	(S) (S)	9	1,792 1,754	2	161	44 30	7,167 6,587	0	9,171 8,552	0			
2019	ő	(s)	9	1,661	3	170	38	7,022	ő	R 8.904	Ŏ			
2020	0	(s)	7	1,519 R 1,504	2	153 208	39 38 32 R 34	5,773	0	7,486 R 8,156	Q			
2021 2022	0	(s) (s)	9	<sup>n</sup> 1,504 1,449	1	208 230	7 34 35	6,373 6,352	2 2	n 8,156 8,099	0			
LULL		(0)		1,110		200		llion Btu		0,000				
1960	(s)	0.0	0.1	1.5	(s)	0.4	0.4	16.8	0.0	19.3	0.0	19.3	0.0	19.3
1965	(s)	0.0 0.0	0.1	1.1 2.0	(s) (s)	0.4 0.7	0.3	19.3 26.2	0.0	21.2	0.0	21.2	0.0	21.2 29.3
1970	(s)	0.0	0.1	2.0	(s)	0.7	0.3 0.3 0.3	26.2	(s)	21.2 29.3 33.4	0.0	29.3	0.0	29.3
1975	(s) 0.0	0.0 0.0	0.1 0.1	2.9	(s)	0.7 0.8	0.3	29.4 28.3	(s)	33.4	0.0 0.0	33.4 33.9	0.0 0.0	33.4 33.9
1980 1985	0.0	(s)	0.1	4.4 5.7	(s) 0.1	1.1	0.3 0.3	28.3 29.7	0.0 0.0	33.9 37.0	0.0	33.9 37.0	0.0	33.9 37.0
1990	0.0 0.0	(s)	0.1	6.1	(s) 0.1	1.0	0.3 0.3 0.3	34.5 37.0	(s) 0.0	42.1 49.7	0.0	42.1	0.0	42.1
1995 2000	0.0	(s) (s)	0.1 0.2	11.5 7.2	0.1 0.0	0.7 0.8	0.3	37.0 43.2	0.0	49.7 51.8	0.0 0.0	49.7 51.8	0.0 0.0	49.7 51.8
2005	0.0	(s)	0.2	8.8		2.4	0.3	42 4	0.0	54.0	0.0	54.0	0.0	54.0
2006	0.0	(s)	0.1	9.5	(s) (s)	2.4 2.1	0.3	42.2 41.9	0.0	54.2	0.0	54.2	0.0	54.2
2007	0.0	(s)	0.1	9.5 9.2 8.5	(s) 0.1	1.8 1.5	0.3 0.3 0.3 0.3	41.9	0.0	53.3 50.6	0.0	53.3	0.0	53.3
2008	0.0	(s) (s)	0.1 0.1	8.5 8.0		1.5 2 a	0.3	40.2 39.9	0.0	50.6 52.1	0.0 0.0	50.6 52.1	0.0 0.0	50.6 52.1
2009 2010	0.0 0.0	(s)	(s)	8.9 9.9	(s) (s)	2.9 0.9	0.2 0.3	39.9 39.1	0.0 0.0	52.1 50.2	0.0	52.1 50.2	0.0	52.1 50.2
2011	0.0	0.1	(s)	9.8	(s)	1.0	0.3	37.8	0.0	48.9	0.0	49.0	0.0	49 0
2012	0.0	0.1 0.1	(s) (s) (s)	9.6 9.8	(s) (s)	1.0	0.3 0.3	36.8 37.5	0.0	47.8 48.6	0.0	47.9 48.7	0.0	47.9 48.7
2013 2014	0.0	0.1	(S)	9.8 9.6	(S)	1.0	0.3	37 1	0.0 0.0	46.6 48.1	0.0 0.0	48.7 48.2	0.0 0.0	48.7 48.2
2015	0.0 0.0	0.1 0.1	(s) (s)	10.7	(s) (s)	1.1 1.1	0.3 0.3	36.4 36.3	0.0	48.1 48.5	0.0	48.6	0.0	48.2 48.6
2016	0.0	0.1	(s) (s) (s)	11.0	(s)	1.2	0.3	36.3	(s) (s) 0.0	48.9	0.0	49.0	0.0	49.0
2017 2018	0.0 0.0	(s) (s)	(s)	10.3 10.1	(s) (s)	0.9 0.9	0.3 0.2	36.2 33.3	(s)	47.7 44.6	0.0 0.0	47.8 44.6	0.0 0.0	47.8 44.6
2018	0.0	(S) (S)	(S)	9.6	(S) (S)	1.0	0.2	35.5 35.5	0.0	44.6 46.3	0.0	44.6	0.0	46.3
2020	0.0	(s)	(s)	8.7	(s)	0.9	0.2	29.2	0.0	39.0	0.0	39.0	0.0	39.0
2021 2022	0.0 0.0	(s)	(s) (s) (s) (s)	R 8.7 8.4	(s) (s)	1.2 1.3	0.2 0.2	32.2 32.1	(s) (s)	R 42.4	0.0	R 42.5	0.0 0.0	R 42.5 42.2
	0.0	(s)	(S)	8.4	(s)	1.3	0.2	32.1	(s)	42.1	0.0	42.2	0.0	42.2

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Page: Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Vermont

Year	Coal Thousand short tons	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum			Nuclear			-1 I			Electricity	
1960				coke	Residual fuel oil <sup>c</sup>	Total	electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	net imports <sup>h</sup>	
960		Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
065	19	0	8	0	1	9	0	809		0	NA	NA	64	
300	19 43 55 13 9	0	38 268 86 63 34	Ō	3	42	Ō	661 724 871		Ō	NA	NA	64 41 50 75 187	
1965 1970 1975	55	0	268	0	23	291 87	0	724		0	NA	NA	50	
1975 1980	13	(s)	86 63	0	(s) 0	63	3,561 2,979	743		0	NA NA	NA NA	/5 187	
1985	28	(s)	34	Ö	Ö	34	2,999	852		Ö	0	0	321	
1990 1995 2000 2005	0	<u>`1</u>	8	0	0	8	3 616	1,348 954		0	0	0	1,710	
995	0	(s)	39 159 12	0	0	39 159 12 8	3,859 4,548 4,072	954		0	0	0	3,954	
2005	0	(s)	159	0	0	159	4,548 4,072	1,201 1,190		0	0	12 11	3,917 2,121	
2006	0	(s)	8	0	0	8	5.107	1.497		ő	ő	11	2,429	
2006 2007	Ö	(s)	9	Ö	Ö	9	4,704	645		Ō	Ö	11 10	2,429 2,488	
2008	0	(s)	6	0	1	7	4.895	1,472		0	0	10	2.493	
2009 2010	0	(s) (s)	3	0	1	4 5	5,361 4,782	1,461 1,322		0	0	12 14 33 107 236 311	2,563 2,426	
2010	0	(S)	5 7	0	1	5 7	4,762	1,322		0	2	33	2,420	
2012	ŏ	(s)	2	ŏ	(s)	3	4.989	1.128		ŏ	5	107	11,499	
2012 2013	0	(s)	8	0	`ó	8	4,846	1,286		0	17	236	11,499 11,739 11,157	
2014	0	(s)	8	0	0	8	5,061	1,175		0	24	311	11,157	
2015 2016	0	(s) (s)	5	0	0	5	0	1,139 1,078		0	48	325	10,791 8,955 10,336	
2017	0	(S)	15	0	0	15	0	1,280		0	59 99	291 305	10.336	
2018 2019	Ö	(s)	8	Ö	Õ	15 8	Ö	1,268 1,337		Ö	107 147	373 377	9,720 14,133	
.019	0	(s)	3	0	0	3	0	1,337		0	147	377	14,133	
2020	0	(s)	5 6	0	0	5	0	1,130		0	183	384	14,065	
2021 2022	0	(s) (s)	11	0	0	6 11	0	1,093 1,141		0	173 202	384 338 409	13,904 13,703	
							Trillion Btu							
1960 1965 1970	0.5 1.2 1.4 0.3 0.2 0.7	0.0	(s) 0.2 1.6	0.0	(s) (s)	0.1	0.0	R 2.8 R 2.3 R 2.5 R 2.5 R 2.9 R 4.6 R 3.3 R 4.1 R 5.1 R 2.2 R 5.0	0.0	0.0	NA	NA	0.2	R 3.6 R 3.8 R 5.7
965	1.2	0.0	0.2	0.0	(s)	0.2	0.0 0.0	H 2.3	0.0	0.0	NA	NA	0.1	H 3.8
1970 1975	1.4	0.0 0.6	1.6	0.0 0.0	0.1	1.7	39.2	R 3.0	0.0 0.0	0.0 0.0	NA NA	NA NA	0.2	R 43 8
1980	0.2	0.0	0.5 0.4 0.2	0.0	(s) 0.0	1.7 0.5 0.4 0.2	32.5	R 2.5	0.5	0.0	NA	NA	0.1 0.2 0.3 0.6	R 43.8 R 37.0 R 39.8
1980 1985	0.7	0.1	0.2	0.0 0.0	0.0	0.2	32.5 31.9	R 2.9	0.5 2.9	0.0	0.0	NA 0.0	1.1	R 39.8
990	0.0	0.7	(s)	0.0	0.0 0.0	(s)	38.3	H 4.6	1.0	0.0	0.0	0.0	5.8	n 50 4
1990 1995 2000	0.0 0.0 0.0	0.1 1.0	(s) 0.2 0.9	0.0 0.0	0.0	(s) 0.2 0.9	38.3 40.5 47.4	H 3.3	1.0 3.4 3.9 5.3 5.8 6.0	0.0 0.0	0.0 0.0	0.0 B (a)	5.8 13.5 13.4 7.2 8.3 8.5 8.5 8.7 8.3 8.6 39.2 40.1	R 61.1 R 70.8
2005	0.0		0.9	0.0	0.0	0.3	42.5	R 4.1	5.3	0.0	0.0	R (s) R (s) R (s)	72	R 59 2
2005 2006	0.0 0.0	(s) (s)	0.1 (s) 0.1	0.0 0.0	0.0 0.0	(s)	42.5 53.3	R 5.1	5.8	0.0	0.0 0.0	R (s)	8.3	R 59.2 R 72.6 R 66.2 R 70.4
2007	0.0	(s)	0.1	0.0	0.0	0.1	49.3	R 2.2	6.0	0.0	0.0	H (s)	8.5	R 66.2
2008	0.0	(s)	(s) (s) (s)	0.0	(s)	(s)	51.2	H 5.0	5.6	0.0	0.0	H (s)	8.5	H 70.4
2009 2010	0.0 0.0	0.1 0.1	(S)	0.0 0.0 0.0 0.0 0.0	(s) (s)	(s) (s)	56.1 50.0	R 5.0 R 4.5 R 4.8	5.7 6.5 5.5 5.0 6.8	0.0 0.0	0.0 0.0	R (s)	8.7 8.3	R 75.6 R 69.4
2011	0.0	(s)	(s)	0.0	(s)	(s)	51.4	R 4.8	5.5	0.0	(s)	R 0.1	8.6	R 70.5
2011 2012	0.0 0.0	(s)	(s) (s)	0.0	(s) 0.0	(s)	52.3 50.6	R 3.8	5.0	0.0	(s) (s) R 0.1	R 0.4	39.2	R 100.8
2013	0.0	(s)		0.0	0.0	(s)	50.6	H 4.4	6.8	0.0	H 0.1 R 0.1	H 0.8	40.1	H 102.8
2014 2015	0.0 0.0	(S)	(s) (s)	0.0 0.0	0.0 0.0 0.0	(S)	52.9 0.0 0.0	'' 4.0 R 3 α	6.4 6.5 6.6	0.0 0.0	" U.1 R 0.2	R (s) R (s) R (s) R 0.1 R 0.4 R 0.8 R 1.1 R 1.1	38.1 36.8	''102.6 R 48 6
2016	0.0	(S)	(s)	0.0	0.0	(s)	0.0	R 3.7	6.6	0.0	R 0.2 R 0.2	R 1.0	30.6	R 42 1
2017 2018	0.0	(s)	0.1	0.0	0.0 0.0	0.1	0.0 0.0	R 4.8 R 4.4 R 4.0 R 3.9 R 3.7 R 4.4 R 4.3	6.2 6.1	0.0	R 0.3	R 1.0	38.1 36.8 30.6 35.3 33.2 48.2	R 70.5 R 100.8 R 102.6 R 48.6 R 42.1 R 47.3 R 45.2 R 60.2
.018	0.0 0.0	(s)	(s)	0.0 0.0	0.0	(s)	0.0	R 4.3	6.1	0.0	R 0.4	R 1.3	33.2	R 45.2
2019	0.0	(s)	(s)	0.0	0.0	(s)	0.0	H 4.6	5.9	0.0	H 0.5	H 1.3	48.2	H 60.5
.020 2021	0.0 0.0	(S) (S)	(S)	0.0 0.0	0.0	(s) (s)	0.0 0.0	H 3.9	6.4 7.1	0.0 0.0	R 0.6	" 1.3 R 1 2	48.0 47 ∆	R 60.1
2020 2021 2022	0.0	(s)	(s) (s) (s) 0.1	0.0 0.0 0.0	0.0 0.0 0.0	0.1	0.0 0.0 0.0	R 4.6 R 3.9 R 3.7 3.9	6.0	0.0	R 0.3 R 0.4 R 0.5 R 0.6 R 0.6 O.7	R 1.0 R 1.3 R 1.3 R 1.3 R 1.2 1.4	48.0 47.4 46.8	R 60.1 58.8

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Virginia

						Petroleum								
						Petroleum				-	Unidad			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthour	s	Thousan	d barrels
1000	10.111		44440	1.110		04.077	17.005	0.540	70.110		4.007			
1960 1965	12,141 14.904	66 96 137	14,146 18.609	1,146 1.658	4,441 6.504	31,077 36.104	17,825 16.780	9,512 11.465	78,148 91,120	0	1,267 883	0	NA NA	NA NA
1965 1970	14,904 11,294	137	18,609 24,640	1,658 2,412	6,504 11,093	36,104 48,684	16,780 33,373	11,465 11,043	91,120 131,246 142,325 150,829	0	883 691	0	NA	NA
1971 1972	9,479 8,223	144 156	24,376 25,075	2,463 2,863	11,803 11,662	51,673 55,089	40,527 44,778	11,483 11,361	142,325 150,829	0 448	1,123 1,408	0	NA NA	NA NA
1973	8 151	153	27 103	2 749	12 311	58 429	44 813	9.677	155 082	6.857	1 318	ŏ	NA	NA
1974 1975	7,550 7,130	144 121	25,364 22,996	2,672 3,077	11,418 11,602	57,945 59,293	43,895 40,953	8,478 7,458	149,770 145,379	5,953 8,970	1,085 1,311	0	NA NA	NA NA
1975	8,317	124	25,101	3,077	11,802	62,422	39,473	9,191	151.350	7,740	888	0	NA NA	NA NA
1976 1977	7.734	124 118	28 183	3,209 3,365	11,954 12,541	64.412	41.301	9,248	151,350 159,051	9.481	888 714	Ō	NA NA	NA NA
1978 1979	7,000 8,651	134 134	26,309 33,056 24,599	3,138 3,624	12,339 12,079	66,616 62,890	37,705 35,306	9,419 9,992	155,525 156,947 131,808	14,098 7,056	1,286 1,543	0	NA NA	NA NA
1980	9.291	158	24,599	2 121	12 279	59 035	24,651	8.113	131,808	11.466	892	Ö	NA	NA
1981	10,666	152 151	23,613	2,945 2,958 2,975 3,697	11,255 11,090	59,241 58,355	24,651 13,590 9,377	6,668	117,313	17,818	365 940	0	6	NA
1982 1983	10,419 10,888	143	21,913 24,890	2,958 2,975	11,090	58,355 59,687	9,377 8,128	6,327 7,651	110,020 114,200	17,420 18,674	1 210	0	73 107	NA NA
1983 1984	10,888 12,168	144	24,890 26,483	3,697	10,869 10,465	59,687 61,916	8,911	7,651 10,738	114,200 122,210	18,674 17,045	1,210 1,182	Ö	295	NA
1985 1986	11,656 11,857	139	26,519 29,676	3,932 3,380	11,038 13,228	62,979 65,184	8,571 12,403	11,269 10,041	124,308 133,912	22,303 21,215	845 75	0	658 920	NA NA
1987	13.227	139 141 159	31 335	4 126	14.432	69.895	10.845	9.903	140.535	18.145	834	0	756	NA NA
1988 1989	13,430	164 174	34,960 30,080	4,251 4,472	15,700	71,098	10,077	9,697	140,535 145,784 143,074	18,145 21,037	-191	0	686	NA
1989 1990	15,113 13,960	174 184	30,080 29,812	4,472 4.088	15,768 15,806	70,930 70,333	11,876 7,807	9,948 9,095	143,074	14,264 23,820	424 1 309	0	728 381	NA NA
1990 1991	13,960 14,885	184 181	29.035	4,088 4,643	15,806 11,824	70,333 70,526	7,807 9,158	8.118	136,940 133,304	23.886	1,309 1,080	ő	365	NA
1992 1993	14,803 15,504	213	28,312 28,713	4,727 4,829	11,670 11,915	71,533 73,827	8.016	8,147 8,270	132,405 136,063	23,334 22,689	1,090 1,313	0	275	NA
1993	15,504 14,533	238 252	28,713 30,309	4,829 4,928	11,915 12,003	73,827 75,047	8,509 7,913	8,270 8,268	136,063	22,689 25,429	1,313 1 146	0	51 277	NA NA
1995	15,084	276	30,580	4,928 4,783	10,589	78.828	5,482	8,108	138,371	25,135	1,146 995	Ō	1	NA NA
1996	16,931 17,165	260 249	35,832 37,717	5,156 5,216	9,204	79,164	4,082	8,569	142,007	26,286	1,429	0	954 737	NA NA
1997 1998	17 320	260	35.855	4 006	9,406 10,192	81,440 82,197	5,202 7,332	8,679 9,746	147,660 149,328	27,084 27,234	1,020 1,283	0	920	NA
1999 2000	17,431 19,606	277	35,952 39,664	4,587 6,097	9,314 9,943	84,814 85,628	7 492	10,151 8,968	152,310 160,196	28,301 28,321	682 712	0	787	NA
2000	19,606	269 238	39,664 39,291	6,097 4,825	9,943 9,981	85,628 90,793	9,895 9,099	8,968 9,555	160,196 163 545	28,321 25,759	712 1 014	0	891 839	NA 1
2002	18,876	258	37,379	4,825 5,345	9,955	91,548	6,734 10,664	7,835	163,545 158,795 172,612	25,759 27,346	868	ŏ	1.480	2
2003	18,709 18,205	258 263 277	43,225 45,636	5,686 5,452 5,767	11,461 16,754	93,019	10,664	8,557 9,124	172,612	24 816	1,014 868 1,782 1,583 1,484	0	1,951 2,056	2
2004 2005	18.335	300	45.306	5,452 5.767	18.845	94,821 95,311	11,525 9,875	8.871	183,312 183,975	28,315 27,918	1,563	0	2,056 1,610	11
2006 2007	17,289 18,131	274	45,937 44,591	5,171 5,231	18,809 19,024	97,076 99,021	3,709 5,143	8,670 8,147	179,372 181,158 167,071	27,594 27,268	1,351 1,248	0	4,149	30
2007 2008	18,131 16,569	320	44,591 39,205	5,231 5,338	19,024 16,520	99,021 95,463	5,143	8,147 6,306	181,158 167,071	27,268	1,248	0	5,415 6,713	30 41 35 37 30 103 92
2009	13.355	299 319	33,487	5,338 5,621	15,693	94,263	4,239 2,990	6,362	158,416	27,931 28,212	1,011 1,479	ő	8.616	37
2010	13,815 11,542 9,020	375 373 410	33 606	5 673	19 868	96 413	3 538	6 193	165 292	26,572 25,548 28,723	1,500	0	9,541 8,887	30
2011 2012	11,542 9.020	3/3 410	32,383 32,692	5,566 4,760	19,300 18,917	90,404 92,643	2,494 2,176	5,953 5,315	156,099 156,503	25,548 28,723	1,210 1 044	0	8,887 9,159	103
2013	12,292	419	32,766	5,842	19 690	92,808	1,387	4,747 4,861	157,240	29,326	1,570 1,500 1,210 1,044 1,254 955 1,158	ő	9,279 9,411	439
2014 2015	11,706 9,719	420 500	32,766 34,951 33,263	5,842 5,985 6,038	21,912 22,948	92,808 94,838 95,461	1,387 1,397 1,483	4,861 5,506	163,943	29,326 30,221 28,060	955	0	9,411 9,429	439 424 466
2016	9 491	543	32,078	5,563	26,009	96,862	1,403	5,596 R 5,460 R 5,757 R 5,382 R 5,505	R 167,170	29,732	1,136	0	9.640	806
2017	6,833	567	32,078 31,624	5,563 5,413	26,009 26,633	96,862 97,373	1,198 1,098	R 5,757	R 167,899	29,732 30,554	1,471 1,116	Ŏ	9,814	806 840
2018 2019	6,491 3,489	634 683	35,775 36,533	5,959 5,839	26,696 27,227	97,470 96,727	715 606	n 5,382 R 5 505	<sup>n</sup> 171,996 R 172,437	29,252 29,498	1,765 1,519	0	9,899 9,903	493 402 420
2020	3.077	683 713	34 038	5,839 5,783	15 605	86.464	524	R 4,916	R 147,332	30.140	2.030	0	8.868	_ 420
2021 2022	2,788	666 635	R 34,370	6,153 6,387	17,241 21,617	93,937	609	R 4,916 R 5,445 5,723	150,303 157,240 163,943 164,791 R 167,170 R 167,899 R 171,996 R 172,437 R 147,332 R 157,754	28,572	1,306	50 51	9,717	R 337 267
2022	2,858	635	33,541	6,387	21,61/	89,757	601	5,723	157,625	28,197	1,137	51	9,385	26/

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Virginia (trillion Btu)

					Fossi	fuels						Fossil fuels (as commingled)	
						Petroleum						, ,	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	316.4	68.4	82.4	4.4	24.0	163.2	112.1	56.1	442.3	827.1	68.4	82.4	163.2
1965	386.3	98.6	108.4	6.4	35.8	189.7	105.5	67.9	513.6	998.5	98.6	108.4	189.7
1970 1971	275.3 230.2	140.1 147.8	143.5 142.0	9.1 9.3	61.9 65.9	255.7 271.4	209.8 254.8	65.6 68.6	745.7 812.0	1,161.1 1,190.0	140.1 147.8	143.5 142.0	255.7 271.4
1971	198.9	159.7	146.1	9.3 10.8	65.1	271.4 289.4	204.0 281.5	67.9	860.8	1,190.0	159.7	142.0 146.1	271.4 289.4
1973	195.9	156.7	157.9	10.3	68.9 63.8	306.9	281.5 281.7	58.5	884.3	1,236.9	156.7	157.9	306.9
1974	195.9 177.0	146.8	147.7	10.0	63.8	304.4	276.0	51.5	884.3 853.4	1,177.2	156.7 146.8	147.7	304.4
1975	169.2	123.6	133.9	11.5	64.9	311.5	257.5	45.1 55.4	824 4	1,117.2	123.6	133.9 146.2	311.5
1976 1977	202.2 187.0	125.9 120.7	146.2 164.2	12.0 12.4	67.0 70.3	327.9 338.4	248.2 259.7	55.4 56.0	856.6 900.9	1,184.7 1,208.6	125.9 120.7	146.2 164.2	327.9 338.4
1977	170.6	136.9	153.2	11.5	69.1	349.9	239.7 237.0	57.5	878.4	1,185.9	136.9	153.2	349.9
1979	213.7	137.0	192.6	13.3	67.6	330.4	222.0	60.5	886.4	1.237.1	137.0	192.6	330.4
1980	231.8	160.9	143.3	11.6	68.8	310.1	155.0	49.2	737.9	1,130.7	161.0	143.3	310.1
1981	264.3	154.9	137.5	10.9	62.9	311.2 306.5 313.5	85.4	40.4	648.4	1,067.6	155.4	137.5	311.2
1982 1983	259.7 275.5	154.6 146.8	127.6 145.0	10.8 11.0	61.9 60.8	306.5	59.0 51.1	38.2 46.5	604.0 627.9	1,018.3 1,050.2	155.0 147.2	127.6 145.0	306.5 313.5
1984	306.9	148.5	154.3	13.6	58.4	325.2	56.0	64.6	672.1	1,127.5	148.8	145.0 154.3	313.5 325.2
1985	297.1	144.5	154.5	14.4	61.7	330.8	53.9	68.1	683.4	1,125.0	144.9	154.5	330.8
1986	303.3	146.6	154.5 172.9	12.4	74.1	330.8 342.4	78.0	61.7	741.4	1,191.3	146.7	154.5 172.9	342.4
1987	337.9	165.1	182.5	15.2	80.9	367.2	68.2	60.9	774.9	1,277.9	165.3	182.5	367.2
1988 1989	342.9 384.2	169.6	203.6 175.2	15.6	87.9	373.5 372.6	63.4 74.7	59.0	803.1	1,315.5 1,352.9	170.2 180.8	203.6 175.2	373.5
1989	355.1	180.4 192.0	175.2 173.7	16.6 15.1	88.3 88.5	372.6 369.5	74.7 49.1	61.0 56.7	788.4 752.5	1,352.9	180.8 192.1	175.2 173.7	372.6 369.5
1991	379.9	188.5	169.1	17.1	66.7	370.5	57.6	50.7	731.3	1 299 7	188.7	169.1	370.5
1992	379.5	221.0	164.9	17.5	65.9	375.8 385.0	50.4	50.4	724.9	1,325.4	221.2	164.9	375.8 385.2
1993	397.3	248.4	167.3	17.8	67.3	385.0	53.5	51.1	741.8	1,387.5	249.0	167.3	385.2
1994 1995	371.7	260.4	176.4 178.0	18.3 17.9	68.0 60.0	390.3 410.2	49.7 34.5	51.3	754.0 750.7	1,386.1	261.6	176.4 178.0	391.3
1995	385.1 428.7	283.9 269.8	208.5	17.9	52.2	409.2	25.7	50.2 52.6	767.5	1,419.7 1,466.0	284.3 270.6	208.5	410.2 412.5
1997	432.8	259.6	219.5	19.6	53.3	421.3	32.7	53.2	799.7	1,492.1	259.9	219.5	423.9
1998	438.5	271.4	208.6	15.0	57.8	424.5	46.1	59.6	811.6	1,521.5	271.5	208.6	427.7
1999	444.5	287.1	209.2	17.2	52.8	438.5	47.1	62.7	827.4	1,559.1	287.3 278.2	209.2	441.2
2000	507.0	277.7	230.8	22.6	56.4	442.3	62.2	55.2	869.4	1,654.1	278.2	230.8	445.4
2001 2002	487.6 482.8	246.4 266.9	228.6 217.5	18.1 19.8	56.6 56.4	469.3 470.8	57.2 42.3	58.8 48.2	888.6 855.1	1,622.6 1,604.7	246.7 267.0	228.6 217.5	472.2 476.0
2003	464.4	272.1	251.5	21.4	65.0	476.7	67.0	52.7	934.4	1,670.8	272.4	251.5	483.4
2004	452.6	285.6	265.5	20.6	95.0	485.6	72.5	56.6	995.8	1,733.9	285.8	265.5	492.7
2005	458.5	311.5	263.6	21.6	106.9	489.3	62.1	55.3	998.8	1,768.8	311.7	263.6	494.9
2006	433.6 458.2	283.5 331.0	266.6	19.2	106.6	488.9 490.4	23.3	54.0	958.8 958.8	1,675.8	283.5	266.6	503.3
2007 2008	458.2 415.1	331.0 310.6	257.9 226.6	19.6 20.2	107.9 93.7	490.4 464.2	32.3 26.7	50.6 39.1	958.8 870.3	1,748.0 1,596.1	331.1 310.7	257.9 226.6	509.2 487.4
2009	334.6	330.4	191.8	21.2	89.0	450.0	18.8	39.8	810.6	1,475.6	330.6	193.5	479.8
2010	346.2	385.8	192.9	21.8	112.7	455.5	22.2	39.3	844.4	1.576.3	385.9	194.1	488.5
2011	288.3	383.4	184.1	21.4	109.4	426.9	15.7	38.1	795.6	1,467.4	383.5	186.9	457.7
2012	222.3	424.0	185.6	18.3	107.3	437.2	13.7	34.1	796.1	1,442.4	424.0	188.5	469.0
2013 2014	290.5 278.2	433.4 438.7	183.5 196.3	22.4 23.0	111.6 124.2	437.4 447.1	8.7 8.8	30.1 30.7	793.8 830.1	1,517.7 1,547.0	433.6 439.0	188.8 201.4	469.6 479.8
2014	232.4	526.3	186.3	23.2	130.1	450.0	9.3	35.7	0217	1,547.0	526.5	191.7	482.7
2016	222.9	572.1	177.6	21.4	130.1 147.5	456.2	9.3 7.5	34 8	_ 844.9	1,593.4 R 1,640.0 R 1,604.6	572.1	184.7	489.6
2017	159.8	596.6	175.5	20.8	151.0	456.2 457.9	6.9	R 36.1	R 848.1	R 1,604.6	596.7	184.7 182.1	492.0
2018	149.3	667.0	199.5	22.9	151.4	458.1	4.5	R 33.7	844.9 R 848.1 R 870.0 R 873.1 R 739.8	H 1 686 4	667.1	206.0	492.6
2019 2020	85.1 75.4	717.7 748.4	203.8 _ 189.1	22.4 22.2	154.4 88.5	454.2 406.0	3.8 3.3	R 34.5 R 30.7	™ 8/3.1 R 720 0	R 1,675.9 R 1,563.7	717.9 748.4	210.4 195.9	488.7 436.8
2020	75.4 68.6	699.9	R 195.2	23.6	97.8	440.6	3.3	R 34.0	R 794.0	R 1,562.5	748.4	R 198.1	436.8 474.4
2022	67.7	665.9	190.7	24.5	122.6	420.5	3.8	35.8	797.0	1,530.7	666.0	193.4	453.2

<sup>&</sup>lt;sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Virginia (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 4.3	56.1	NA	NA	NA	NA	56.1	0.0	NA	NA	R 60.4	R -54.8 R -36.9 R 22.1 R 33.2 R 49.4 R 21.0 R 32.8	0.0	R 832.7
1965 1970	0.0 0.0	R 3.0	54.2 55.5	NA NA	NA NA	NA NA	NA NA	54.2 55.5	0.0 0.0	NA NA	NA NA	R 57.2 R 57.8 R 58.4	H -36.9	0.0 0.0	R 1,018.8 R 1,241.0 R 1,281.6 R 1,334.4
1970	0.0	R 2.4 R 3.8	54.6	NA NA	NA	NA NA	NA	54.6	0.0	NA	NA	R 58.4	R 33.2	0.0	R 1,241.6
1972	4.8	R 4.8	55.9	NA	NA	NA	NA	55.9	0.0	NA	NA	H 60 7	R 49.4	0.0	R 1,334.4
1973 1974	74.8 66.4	R 4.5 R 3.7	55.5 54.8	NA NA	NA NA	NA NA	NA NA	55.5 54.8	0.0 0.0	NA NA	NA NA	R 60.0 R 58.5	R 32 8	0.0 0.0	R 1,392.7 R 1,334.9
1975	98.8	H45	53.2	NA	NA	NA	NA	53.2	0.0	NA	NA	H 57.7		0.0	H 1 310 8
1976 1977	85.5 102.1	R 3.0 R 2.4	66.8 66.4	NA NA	NA NA	NA NA	NA NA	66.8 66.4	0.0	NA NA	NA NA	R 69.9	R 57.3	0.0 0.0	
1977	154.2	R 4.4	73.1	NA NA	NA NA	NA NA	NA NA	73.1	0.0 0.0	NA NA	NA NA	R 68.8 R 77.5	R 52 5	0.0	R 1,450.0 R 1,470.1
1979	76.8	R 5 3	79.2	NA	NA	NA	NA	79.2	0.0	NA	NA	H 84 5	R 57.3 R 70.5 R 52.5 R 125.3	0.0	H 1 523 6
1980 1981	125.1 196.5	R 3.0 R 1.2	76.3 75.4	NA (a)	NA NA	NA NA	NA (a)	76.3 75.5	0.0 0.0	NA NA	NA NA	R 79.3 R 76.7	R 150.2 R 128.8 R 148.3 R 157.7	0.0 0.0	R 1,485.3 R 1,469.6
1982	192.9	Hqq	83.4	(s) 0.3	NA NA	NA NA	(s) 0.1	83.8	0.0	NA	NA NA	H 87 0	R 148.3	0.0	H 1 446 5
1983	203.6	H / 1	83.4 82.7	0.4	NA	NA	0.2	83.8 83.3	0.0	NA	0.0	R 87 /	R 157.7	0.0	H 1 /09 0
1984 1985	184.8 236.9	R 4.0 R 2.9	90.0 90.5	1.0 2.3	NA NA	NA NA	0.3 0.3	91.3 93.1	0.0 0.0	0.0 0.0	0.0 0.0	R 95.3 R 96.0	n 172.6 R 161.7	0.0 0.0	R 1,580.3 R 1,619.5
1986	224.4	R 0.3 R 2.8	82.2 76.4	3.2	NA	NA NA	0.3	85.7 79.4	0.0	0.0	0.0	R 85.9 R 82.2	R 172.6 R 161.7 R 198.4 R 247.8	0.0	R 1,700.1 R 1,797.3
1987	189.5	R 2.8	76.4	3.2 2.6	NA	NA	0.3	79.4	0.0	0.0	0.0	R 82.2	R 247.8	0.0 0.0	R 1,797.3
1988 1989	223.0 151.0	R -0.7 R 1.4	79.7 91.3	2.4 2.5	NA NA	NA NA	0.3 0.3	82.4 94.1	0.0 0.1	(s) 0.1	0.0 0.0	R 81.8 R 95.7	R 257.6 R 309.6 R 299.2 R 303.9	0.0 0.0	R 1,877.9 R 1,909.3
1990	252.1 250.4	R 4.5 R 3.7	90.4	1.3	NA	NA	0.2	92.0	0.1	0.1	0.0	R 96.7 R 100.0	R 299.2	0.0	R 1,947.5 R 1,954.0
1991	250.4	R 3.7	94.5	1.3	NA	NA	0.3	96.1	0.2	0.1	0.0	R 100.0	R 303.9	0.0	R 1,954.0
1992 1993	244.3 238.3	R 3.7 R 4 5	98.1 104.8	1.0	NA NA	NA NA	0.2 0.3	99.3 105.2	0.2 0.2	0.1 0.1	0.0 0.0	R 103.3 R 110.1	R 309.3 R 320.6 R 313.8 R 343.8 R 313.4 R 290.7 R 300.4	0.0 0.0	R 1,982.3 R 2,056.5 R 2,081.1
1994	265.8	R 4.5 R 3.9	109.9	0.2 1.0	NA	NA	0.2	111.1	0.2	0.1	0.0	R 110.1 R 115.4	R 313.8	0.0	R 2,081.1
1995 1996	264.1 276.1	R 3.4 R 4.9	115.4 121.0	(s) 3.3	NA NA	NA	0.2	115.6 124.4	0.2 0.3	0.1	0.0 0.0	R 119.3	H 343.8	0.0 0.0	H 2 1/7 A
1996	284.2	H 3.5	121.0	3.3 2.6	NA NA	NA NA	0.1 0.1	115.1	0.3	0.1 0.1	0.0	R 129.7 R 119.1	R 290.7	0.0	R 2,185.2 R 2,186.1 R 2,225.0
1998	285.7	R 4 4	109.2	3.2	NA	NA	0.1	112.5	0.4	0.1	0.0	H 117 4	R 300.4	0.0	R 2,225.0
1999 2000	295.7 295.4	R 2.3 R 2.4	112.5 106.1	2.7 3.1	NA NA	NA NA	0.1 0.1	115.3 109.3	0.4 0.4	0.1 0.1	0.0 0.0	R 118.2 R 112.2	R 313.5 R 330.8 R 341.9 R 379.2	0.0 0.0	R 2,286.5 R 2,392.5 R 2,322.1 R 2,345.7
2000	269.0	Над	81.6	2.9	(s)	NA NA	0.1	84.6	0.4	0.1	0.0	H 88.6	R 341.9	0.0	R 2,322.1
2002	285.5	H30	67.4	2.9 5.1	(s)	NA	0.1	72.6	0.5	0.2	0.0	H 76.3	R 379.2		R 2,345.7
2003 2004	258.6 295.3	R 6.1 R 5.4	85.3 94.0	6.8 7.1	(s) (s)	NA NA	(s) (s)	92.1 101.2	0.6 0.7	0.2 0.2	0.0 0.0	R 99.0 R 107.5	H 385.7	(s) (s) 0.0	R 2,414.1 R 2,540.8
2005	291.4	R 5 1	110.9	5.6	0.1	NA	(s)	116.5	0.7	0.3	0.0	H 122.7	R 385.7 R 404.1 R 433.5 R 466.9	0.0	R 2,616.3 R 2,555.2
2006	287.9	R 4.6	104.1	14.4	0.2 0.2	NA	(s) (s)	118.7	0.9	0.3 0.4	0.0	R 12/16	R 466.9	0.0	R 2,555.2
2007 2008	286.0 291.9	R 4.3 R 3.4	103.0 105.8	18.8 23.3	0.2 0.2	NA NA	(s) (s)	122.0 129.3	1.0 1.2	0.4 R 0.4	0.0 0.0	R 127.7 R 134.3	R 454.5 R 491.6 R 489.2 R 508.9 R 513.1 R 445.1 R 417.8	0.0 0.0	R 2,616.2 R 2,514.0 R 2,395.3 R 2,497.1
2009	295.1 277.7	R 5.0 R 5.1	98.6	29.8	0.2	NA	(s)	128.6	1.4	0.5	0.0	R 135.5 R 134.2	R 489.2	0.0	R 2,395.3
2010	277.7	R 5.1	93.8	33.1	0.2	NA	(s)	127.1	1.6	0.5	0.0	R 134.2	R 508.9	0.0	R 2,497.1
2011 2012	267.3 301.0	R 4.1 R 3.6	90.6 89.9	30.8 31.8	0.5	0.0 0.0	(s)	122.0 122.1	1.8	0.5 R 0.5 R 0.6	0.0 0.0	R 128.4 R 127.9	<sup>n</sup> 513.1 R 445.1	0.0 0.0	R 2,376.2
2013	306.4	R 4 3	103.6	32.2	0.5 2.4	0.0	(s) (s)	138.2	1.7 1.7	R 0.6	0.0	H 144.7	R 417.8	0.0	R 2,316.4 R 2,386.7 R 2,442.6
2014	316.1	R 3.3 R 4.0	118.9	32.7	2.3	0.0	2.0	155.9	1.7	H 0.6	0.0	H 161.5	R 418.1	0.0	R 2,442.6
2015 2016	293.5 311.0	R 5 0	118.3 112.0	32.7 33.5	2.5	0.0 0.0	2.3 1.3	155.8 151.0	1.7 1.7	R 0.6 R 0.7	0.0 0.0	R 162.1 R 158.5	R 418.1 R 355.3 R 273.4 R 278.6	0.0 0.0	R 2,404.2 R 2,382.8 R 2,361.2
2017	319.6	R 3 8	109.6	33.5 34.1	4.3 4.5	0.0	1.3 2.8	151.0	1.7	R18	0.0	R 158.5 R 158.4	R 278.6	0.1	R 2,361.2
2018	305.8 308.0	R 6.0 R 5.2	118.3 _ 107.7	34.5	2.6	0.0	2.4	R 157.9	1.7	R 3.4 R 4.2	0.0	R 169.0 R 155.7	R 289.4 R 278.7	0.1	R 2,450.7 R 2,418.3
2019 2020	314.8	н 69	R 101.0	34.5 30.8	2.2 2.3	0.0 0.0	0.2 0.1	144.5 R 134.2	1.7 1.7	H 6.0	0.0 0.0	R 155.7 R 148.8	R 196 0	0.0 0.0	R 2,418.3
2020 2021	R 298.0	H 4.5	H 105.4	33.8	1.8	0.0	(s)	H 141.0	1.7	H 12.8	R 0.2	R 160.1	R 196.0 R 352.6	0.0	R 2,223.3 R 2,373.2
2022	294.1	3.9	107.9	32.7	1.4	0.0	(s)	142.1	1.7	17.7	0.2	165.5	437.6	0.0	2,427.8

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 Description of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Virginia

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Ye	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	5,879	65	14,140	1,146	4,441	31,077	17,695	9,512	78,012	79					11,561			
1970		132	23,919	2,412	11,093	48,684	16,288	10,187	112,584	41					29,816			
1980		156	23,806	3,131	12,279	59,035	10,065	8,113	116,429	27					48,369			
1990		175 232	29,259 38,697	4,088 6,097	15,806 9,943	70,333 85,628	6,386 6,522	9,095 8.968	134,966 155,857	0 13					72,696 96,715			
200		233	43,901	5,767	18,845	95.311	4,419	8,871	177,114	13					108,850			
2006		214	45,476	5,171	18,809	97,076	2,858	8,670	178,060	6					106,721			
2007		229	43,477	5,231	19,024	99,021	2,977	8,147	177,877	7					111,570			
2008		222	38,449	5,338	16,520	95,463	3,016	6,306	165,093	9					110,106			
2009 2010		224 236	32,489 32,671	5,621 5,673	15,693 19,868	94,263 96,413	2,244 2,313	6,362 6,193	156,672 163,132	10 12					108,462 113,806			
2010		236	32,671	5,566	19,868	90,404	2,313	5,953	155,262	11					110,228			
2012		220	32,340	4,760	18,917	92,643	1,929	5,315	155,904	12					107,795			
2013		247	32,423	5,842	19,690	92,808	1,210	4,747	156,719	5					110,512			
2014	2,194	261	33,430	5,985	21,912	94,838	815	4,861	161,840	10					112,098			
2015		257	32,260	6,038	22,948	95,461	583	5,596	162,888	12					112,009			
2016		249	31,489	5,563	26,009	96,862	810	R 5,460	R 166,193	9					112,281			
2013 2018		255 277	31,017 34,607	5,413 5,959	26,633 26,696	97,373 97,470	889 299	R 5,757 R 5,382	R 167,083 R 170,412	(s) (s)					111,530 118,166			
2019		274	36,270	5,839	27,227	96,727	466	R 5,505	R 172,034	(s)					118,435			
2020		264	33,769	5,783	15,605	86,464	425	R 4.916	R 146,963	(s)					117,254			
202	1,306	284	R 33,894	6,153	17,241	93,937	554	R 5,445	R 157,223	(s)					125,245			
2022	1,206	287	32,469	6,387	21,617	89,757	567	5,723	156,519	(s)					132,265			
									Trillion									
1960	149.0	66.9	82.4	4.4	24.0	163.2	111.2	56.1	441.4	R <sub>0.3</sub>	56.1	NA	NA	NA	39.4	R 753.2	R 79.5	R 832.7
1970		135.7	139.3	9.1	61.9	255.7	102.4	60.5	628.9	R 0.1	55.5			NA	101.7	R 1,032.6	R 208.4	R <sub>1,241.0</sub>
1980		158.5	138.7	11.6	68.8	310.1	63.3	49.2	641.6	R 0.1	76.3		NA	NA	165.0	R 1,134.2	R 351.1	R 1,485.3
1990		182.0	170.4	15.1	88.5	369.5	40.1	56.7	740.3	0.0	83.8			0.1	248.0	1,379.8	R 567.8	R 1,947.5 R 2,392.5
200		240.1 242.6	225.2 255.4	22.6 21.6	56.4 106.9	445.4 494.9	41.0 27.8	55.2 55.3	845.7 961.9	R (s) R (s)	100.4 97.1	0.1 (s)	0.4	0.1	330.0 371.4	R 1,610.1 R 1,763.9	R 782.4 R 852.4	R 2,616.3
200		221.4	263.9	19.2	106.6	503.3	18.0	54.0	965.1	R (s)	91.6		0.9	0.3	364.1	1,724.9	R 830.3	R 2,555.2
200		237.9	251.5	19.6	107.9	509.2	18.7	50.6	957.5	R (s)	89.9		1.0	0.4	380.7	R 1,752.0	R 864.1	R 2,616.2
2008	83.8	230.7	222.2	20.2	93.7	487.4	19.0	39.1	881.6	R (s)	89.6		1.2	R <sub>0.4</sub>	375.7	R 1,663.0	R 850.9	R 2,514.0
2009		232.2	187.7	21.2	89.0	479.8	14.1	39.8	831.6	R (s)	82.9		1.4	0.5	370.1	R 1,585.1	R 811.7	R 2,396.8
2010		241.7	188.7	21.8	112.7	488.5	14.5	39.3	865.5	R (s)	77.5		1.6	0.5	388.3	R 1,650.0	R 848.2	R 2,498.1
201		237.2	184.2	21.4	109.4	457.7	13.4	38.1	824.2	R (s) R (s)	74.7		1.8	0.5 R 0.5	376.1	R 1,587.1	R 791.3 R 752.0	R 2,378.4 R 2,318.9
2012 2013		228.0 256.0	186.5 186.9	18.3 22.4	107.3 111.6	469.0 469.6	12.1 7.6	34.1 30.1	827.3 828.3	(s)	72.7 81.5		1.7 1.7	R 0.6	367.8 377.1	R 1,566.9 R 1,611.1	R 778.7	R 2,389.8
2014		273.5	192.7	23.0	124.2	479.8	5.1	30.7	855.5	R (s)	86.0			R 0.6	382.5	R 1,661.8	R 783.7	R 2,445.5
201		269.6	185.9	23.2	130.1	482.7	3.7	35.7	861.3	R (s)				R 0.6	382.2	R 1,651.2	R 755.8	R 2,407.1
2016		261.3	181.3	21.4	147.5	489.6	5.1	34.8	R 879.7	R (s)	78.4	1.3	1.7	R 0.7	383.1	R 1,652.7	R 732.9	R 2,385.6
201		269.3	178.6	20.8	151.0	492.0	5.6	R 36.1	R 884.1	(s)	R 81.2			R 0.8	380.5	1,664.3	R 699.0	R 2,363.3
2018		293.1	199.3	22.9	151.4	492.6	1.9	R 33.7	R 901.7	(s)	82.5		1.7	R 0.8	403.2	R 1,729.2	R 725.4	R 2,454.6
2019		289.3	208.9	22.4 22.2	154.4	488.7	2.9 2.7	R 34.5 R 30.7	R 911.8 R 775.3	(s)	76.5 R 73.1			R 1.0 R 1.3	404.1 400.1	R 1,727.2 R 1,566.5	R 695.5 R 661.3	R 2,422.7 R 2,227.8
2020		279.4 301.6	194.4 R 195.4	23.6	88.5 97.8	436.8 474.4	3.5	R 34.0	R 828.6	(s) (s)	R 72.3		1.7 1.7	R 1.6	400.1	R 1,670.0	R 705.3	R 2,375.3
202		302.8	187.2	24.5	122.6	453.2	3.6	35.8	826.8	(s)	78.1	(s)	1.7	1.9	451.3	1,696.5	733.4	2,429.9
							3.0		2_0.0	(0)		(0)			.51.0	.,		_,:_0.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

i Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. ——= Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Virginia

Year 1960 1965 1970 1975 1980 1985 1990	Coal a Thousand short tons  766 454 264 97	Natural gas <sup>b</sup> Billion cubic feet	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total		1					
1960 1965 1970 1975 1980 1985	766 454 264 97	cubic feet								Electricity <sup>g</sup>		Electrical system	
1965 1970 1975 1980 1985	454 264 97	27		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1965 1970 1975 1980 1985	454 264 97		6,520	608	4.655	11,783				4,099			
1975 1980 1985	97	36	7,471 9,734	939	4,655 4,847 4,544	13,257 15,462				6,557 11,546			
1975 1980 1985	97	27 36 50	9,734	1,185	4,544	15,462				11,546			
1980 1985 1990		49 55 49	9,091 7,380 5,738	1 293	2,056 1,403 3,611	12,440 10,030 10,844				15,871 19,731 22,568			
1985 1990	41 60	55	7,380	1,247 1,495	1,403	10,030				19,731			
1000	60	49	5,738	1,495	3,611	10,844				22,568			
1000	47	51	6,069	1,759 2,380	1,160 1,220 1,642	8,988 8,762				28,130 33,472			
1995	37	69	5,162	2,380	1,220	8,762				33,472			
2000	9	80	5,679	2,899	1,642	10,219				37,541 44,662 42,906			
2005 2006	10 2	85 72	5,390 4,524 4,358	3,195 2,551	1,426 1,139	10,010 8,214				44,662			
2006		/2	4,524	2,551	1,139	8,214				42,906			
2007	8	81	4,358	2,914	740	8,012				45,481			
2008 2009	0	80 84 88 79 70	3,993 3,030 3,215	3,098	307 286 332	7,398 6,827 7,001				44,597 44,763 48,439			
2009 2010	0	84	3,030	3,511	286	5,827				44,763			
2010	0	70	0,210	3,455 3,289	332	6,266				46,439			
2011	0	79	2,822 2,095	3,269 2,642	155 71	4,807				45,771 43,535			
2012	0		2,093	3,161	79	5,594				45,555 4E 416			
2013	0	86 93 85 77 77 89	2,355 2,437 2,249	3,101	122	5,594				45,416 46,444 45,928			
2014 2015	0	95 85	2,407	3,054 3,201	123 85	5,614 5,534				45,444 45,928			
2016	0	77	1,712	2 735	113	4,560				45,186			
2017	0	77	1,548	2,735 2,565	64	4,177				45,186 43,982			
2018	Õ	89	1,967	3,156	64 68	5,192				47 963			
2019	Ŏ	82	1.638	3,313	74	5,025				47,963 46,666			
2020	Ō	82 75	1,593	3,434	83	5 110				46,089			
2021	Ö	81	1,593 R 2,095	3,056	83 76	R 5,227				46.634			
2022	0	84	2,155	3,007	69	5,231				46,718			
							Trillion Btu						
1960	19.0	27.9	38.0	2.3	26.4	66.7	30.0	NA	NA	14.0	157.5	R 28.2 R 44.0 R 80.7	R 185.7 R 211.8 R 281.9 R 304.8 R 343.4 R 370.3 R 429.8 R 515.5 R 580.3 R 658.8
1965	11.2	37.4	43.5	3.6	27.5	74.6	22.2	NA	NA	22.4	167.8	R 44.0	R 211.8
1970	6.3	50.8	56.7	3.6 4.6	27.5 25.8	87.0	17.6	NA	NA	39.4	201.2	R 80.7	R 281.9
1965 1970 1975	11.2 6.3 2.3	37.4 50.8 49.7	56.7 53.0	5.0	11.7	69.6	17.6 18.5	NA	NA	22.4 39.4 54.2	194.2	R 110.6	R 304.8
1980	1.0	55.6	43.0	4.8	8.0	55.7	20.5	NA	NA	67.3	200.2	R 143.2	R 343.4
1985 1990 1995	1.5	50.7 53.6 70.8	33.4 35.4	5.7	20.5 6.6	59.6	25.2	NA	NA	77.0	213.8	R 156.5	R 370.3
1990	1.2	53.6	35.4	6.8	6.6	48.7	10.4	0.1	0.1	96.0	210.1	R 219.7	R 429.8
1995	0.9	70.8	30.0	9.1	6.9	46.1	15.6	0.1	0.1	114.2	247.8	H 267.7	H 515.5
2000 2005	0.2	82.5	33.0	11.1	9.3	53.5	12.1	0.2	0.1	114.2 128.1 152.4 146.4 155.2 152.2	276.6	H 303.7	H 580.3
2005	0.2	89.0	31.4	12.3	8.1	51.7	15.2	0.3	0.3	152.4	309.1	H 349.7	H 658.8
2006 2007 2008	0.1	74.2 84.0 82.7	26.3 25.2 23.1	9.8	6.5	42.5 40.6 36.7	13.5 14.9	0.4	0.3	146.4	277.4	H 333.8	R 611.2 R 648.0 R 633.9 R 625.0 R 669.0
2007	0.2	84.0	25.2	11.2	4.2	40.6		0.5	0.4	155.2	295.7 R 289.2	n 352.3	n 648.0
2008	0.0	82.7	23.1	11.9	1.7	36.7	16.7	0.6	R 0.4	152.2	n 289.2	n 344.6	n 633.9
2009 2010	0.0	87.4	17.5	13.5	1.6	32.6 33.7	16.2	0.7	0.5 0.5	152.7 165.3	290.0 R 307.9	n 335.0	n 625.0
2010	0.0	90.4	18.6	13.3	1.9	33.7	17.3	0.8	0.5	165.3	11307.9	11 361.0 B 000.0	B 644.0
2011	0.0	81.4	16.3	12.6	0.9 0.4	29.8	16.8	0.8	0.5 _ 0.5	156.2	285.4 R 259.4	11 328.6 B 000.7	1 614.0 B 500.4
2012 2013	0.0 0.0	72.9 88.9	12.1 13.6	10.1 12.1	0.4	29.8 22.6 26.2	14.0 18.3	0.8 0.8	0.5 R 0.5	156.2 148.5 155.0	R 200.6	R 110.6 R 143.2 R 156.5 R 219.7 R 267.7 R 303.7 R 349.7 R 333.8 R 352.3 R 344.6 R 335.0 R 361.0 R 328.6 R 303.7 R 320.0 R 324.7 R 309.9 R 295.0 R 275.7 R 275.7 R 294.4 R 274.1 R 259.9 R 262.6	R 614.0 R 563.1 R 609.6
2013	0.0	88.9 97.4	14.0	12.1	0.4	20.2	_ 18.5	0.8	0.6	158.5	R 289.6 R 302.2 R 287.6 R 270.4	R 224.7	R 606.0
2014 2015	0.0	97.4 89.6	13.0	11./	0.7 0.F	26.5 25.7 21.0	10.5 R 14.2	0.8	0.0 R o e	150.5	R 287 6	R 200 0	R 626.9 R 597.5 R 565.4 R 538.4
2015	0.0	81.1	9.9	12.3 10.5	0.5 0.6	21.7	R 14.3 R 12.8	0.8	R 0.6 R 0.6 R 0.6 R 0.7	156.7 154.2	R 270.4	R 205.0	R 565.4
2016	0.0	81.1	8.9	9.9	0.6	19.1	10.9	0.8	R 0.0	154.2	R 262.8	R 275 7	R 538 4
2017	0.0	94.2	11.3	12.1	0.4	23.8	10.9	0.8	R 0.7	163.6	R 202.0	R 201 1	R 501.4
2018 2019	0.0	86.5	9.4	12.7	0.4	22.6	12.0	0.8	Rna	150.0	R 297.0 R 282.2	R 274.1	R 591.4 R 556.3
2020	0.0	79.7	9.2	13.2	0.4	22.0	R g A	0.8	R 1 1	157.2	R 270.1	R 259 9	R 530.0
2020 2021	0.0	86.3	12.1	13.2 11.7	0.5 0.4	R 24.2	13.8 12.2 R 8.4 R 8.2	0.8	R 1.1 R 1.4	163.6 159.2 157.3 159.1	R 280.0	R 262.6	R 542.7
2022	0.0	86.3 89.0	12.4	11.6	0.4	22.8 R 24.2 24.4	10.1	0.8	1.6	159.4	285.2	259.1	R 530.0 R 542.7 544.3

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Virginia

					Pet	roleum			Hydro-	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels	1		Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	533 342	11	1,388	256 395	93 97	223 275	175	2,135 2,567	NA			NA	3,676			
1965 1970	342 207	15 30	1,591 2,072	395 498	97 91	275 210	211 118	2,567 2,989	NA NA			NA NA	6,192 10,804			
1975	226	32	1,935	543	41	310	245	3,075	NA NA			NA NA	14,014			
1980	152	32 38	1,634	524	46	371	443	3,018	NA			NA	16,969			
1985 1990	211 189	34 41	2,747 2,815	629 740	214 139	456 478	443 218	4,489 4,390	NA 0			NA (s)	21,491 28,082			
1995	248	57	2,656	1,001	275	132	205	4,269	Ö			(s)	33,051			
2000 2005	74 111	66 66	3,322 2,980	1,219 1,261	276 203	122 115	431 83	5,369 4,642	0			(s)	38,459 44,670			
2005	24	62	2,692	1,093	168	100	37	4,042	0			(s) (s)	44,654			
2007	75 75	66 67	2,088	1,173	162	116	18	3,557	0			(s)	46,971			
2008 2009	75 90	67 68	1,549 1,333	1,445 1,358	25 28	104 98	20 22	3,143 2.839	0			(s) (s)	46,878 46,828			
2010	84	69	1,475	1,513	38	80	29	3,135	0			1	48,037			
2011	90	64	1,153	1,568	26	106	12	2,864	0			2	47,051			
2012 2013	49 51	60 68	1,709 1,377	1,414 1,836	11 13	96 93	6	3,235 3,322	0			, 8	46,757 47,751			
2014	66	68 72	1,598	1,981	21	100	4	3,704	ŏ			11	47,752			
2015	50	69 68	1,601	1,817	13	2,234	0	5,665	0			13	48,347			
2016 2017	34 37	68	1,494 1,563	1,898 1,970	25 10	2,263 2,266	(s)	5,680 5,808	0			16 24	49,264 50,201			
2018	27	68 74	1,821	1,948	12	2,303	1	6,084	Õ			23	52,268			
2019 2020	22 10	71 68	1,879 1,498	1,829 1,711	13 15	2,317 2,333	0	6,039	0			38 65	53,981 53,527			
2020	8	71	R 1,484	2,041	14	2,352	(s) (s)	5,557 R 5,890	0			83	58,724			
2022	9	74	1,507	2,038	13	2,438	(s)	5,996	0			86	68,556			
									llion Btu							
1960	13.2 8.4	11.7	8.1	1.0 1.5	0.5	1.2	1.1 1.3	11.9	NA	0.6	NA	NA	12.5	49.9	R 25.3 R 41.6	R 75.2
1965 1970	8.4 4.9	15.3 30.9	9.3 12.1	1.5 1.9	0.5 0.5	1.4 1.1	1.3 0.7	14.1 16.3	NA NA	0.4 0.3	NA NA	NA NA	21.1 36.9	59.3 89.3	R 75.5	R 100.9 R 164.9
1975	5.3	33.0	11.3	2.1	0.2	1.6	1.5	16.8	NA	0.4	NA	NA	47.8	103.2	R 97.6	R 200.8
1980 1985	3.7	39.0 35.3	9.5 16.0	2.0 2.4	0.3 1.2	1.9 2.4	2.8 2.8	16.5 24.8	NA NA	0.5 0.6	NA NA	NA NA	57.9 73.3	117.7 139.2	R 123.2 R 149.0	R 240.8 R 288.2
1985	5.3 4.7	42.8	16.4	2.4	0.8	2.4	2.6 1.4	23.9	0.0	7.3		(s)	73.3 95.8	174.6	R 2193	Ragaa
1995	6.2	58.7	15.5	3.8	1.6	0.7	1.3	22.8	0.0	5.4	(s) 0.1	(s)	112.8	206.0	R 264.3	R 470.3
2000 2005	1.9 2.8	68.4 68.6	19.3 17.3	4.7 4.8	1.6 1.2	0.6 0.6	2.7 0.5	28.9 24.4	0.0 0.0	10.1 8.5	0.2 0.5	(s) (s)	131.2 152.4	240.6 257.2	R 311.1 R 349.8	R 551.7 R 607.0
2006	0.6	64.6	15.6	4.2	1.0	0.5	0.2	21.5	0.0	8.2	0.5	(s)	152.4	247.7	H 347 4	R 595.1
2007	1.9	68.9	12.1	4.5	0.9	0.6	0.1	18.2	0.0	7.6	0.6	(s)	160.3	257.4	R 363.8 R 362.3	R 621.2 R 617.1
2008 2009	2.0 2.3	69.5 70.1	9.0 7.7	5.5 5.2	0.1 0.2	0.5 0.5	0.1 0.1	15.3 13.7	0.0 0.0	7.5 6.9	0.6 0.7	(s) (s)	159.9 159.8	254.9 253.5	R 350.4	R 603.9
2010	2.2	70.7	8.5	5.8	0.2	0.4	0.2	15.1	0.0	7.1	0.8	(s)	163.9	259.8	R 358.0	R 617.8
2011 2012	2.4	66.0 62.3	6.7 9.9	6.0 5.4	0.1 0.1	0.5 0.5	0.1	13.4 15.9	0.0 0.0	6.6 6.9	1.0 0.9	R (S)	160.5 159.5	249.9 R 246.8	R 337.8 R 326.2	R 587.7 R 573.0
2012	1.3 1.3	70.6	7.9	7.1	0.1	0.5	(s) (s)	15.6	0.0	7.4	0.9	R (s)	162.9	258.8	H 226 5	n 595 2
2014	1.8	75.7	9.2	7.6	0.1	0.5	(s)	17.5	0.0	7.4	0.9	R (s)	162.9	H 266.2	R 333 8	R 600.0
2015 2016	1.3 0.9	72.4 71.0	9.2 8.6	7.0 7.3	0.1 0.1	11.3 11.4	0.0	27.6 27.5	0.0 0.0	7.2 7.4	0.9 0.9	R (s) 0.1	165.0 168.1	274.4 R 275.7	R 326.2 R 321.6	R 600.6 R 597.3
2016	0.9	71.0 71.9	9.0	7.3 7.6	0.1	11.4	(s) 0.0	28.1	0.0	7.2	0.9	R 0.1	171.3	H 280 4	R 314 6	H 595 0
2018	0.7	78.6	10.5	7.5	0.1	11.6	(s) 0.0	29.7	0.0	6.8	0.9	B o 1	178.3	R 295.0	R 320 9	H 615.9
2019 2020	0.6 0.3	75.3 71.5	10.8 8.6	7.0 6.6	0.1 0.1	11.7 11.8		29.6 27.1	0.0 0.0	R 5.9 6.2	0.9 0.9	R 0.1 R 0.2	184.2 182.6	R 296.6 R 288.8	R 317.0 R 301.9	R 613.6 R 590.6
2021	0.2	75.7	8.6	7.8	0.1	11.9	(s) (s)	R 28.3	0.0	5.9	0.9	R 0.3	200.4	R 311.8	R 330.7	R 642.5
2022	0.2	78.6	8.7	7.8	0.1	12.3	(s)	28.9	0.0	11.1	0.9	0.3	233.9	353.9	380.2	734.1

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Virginia

1970 4,172 45 4,415 682 653 4,170 4,767 1 1975 2,816 37 3,128 1,184 460 7,611 4,682 1 1980 3,538 55 3,573 1,312 278 5,203 5,917 1 1985 4,219 51 3,389 1,707 686 3,408 6,831 1 1990 4,641 75 3,625 1,526 705 2,853 7,184 1 1995 3,551 99 3,661 1,338 718 1,777 6,010 1 2000 3,425 78 4,857 1,945 569 1,867 6,401 1 2000 3,425 76 7,105 1,244 1,639 2,406 6,553 1 2006 3,068 74 6,872 1,455 1,732 1,126 6,847 1 2007 3,135 75 7,114 1,081 1,081 1,681 6,580 1 2008 3,125 67 6,807 667 1,104 1,081 1,681 6,580 1 2009 2,463 63 3,108 669 809 1,625 5,443 1 2010 2,773 68 2,419 676 971 1,025 5,388 1 2010 2,773 68 2,419 676 971 1,025 5,044 1 2011 2,653 73 2,513 680 951 1,022 5,052 1 2012 2,475 80 2,822 672 959 855 4,548 2013 2,371 84 2,950 808 1,001 553 3,960 2014 2,128 88 3,097 922 960 274 3,973 2015 1,708 95 2,864 987 745 326 4,747 2016 1,629 95 2,825 889 739 349 8,4598 2017 1,522 101 2,605 838 10 761 40 R,4582 R 2017 1,522 101 2,605 838 709 349 R,4598 R 2017 1,522 101 2,605 838 748 105 R,5014 R 2018 1,526 103 2,538 810 761 40 R,4582 R 2019 1,494 107 2,714 654 758 253 R,4751 R 2020 1,253 110 2,161 612 763 57 R,4226 R 2019 1,494 107 2,714 654 758 253 R,4751 R 2021 1,298 118 2,644 1,024 759 135 R,4542 R 2022 1,197 113 2,672 1,289 784 138 4,860	Million kWh  12.961 79 6.241 87 4.687 41 7.064 38 6.282 27 6.021 27 5.893 0 3.504 14 5.639 13 8.947 7 75,654 10 0.585 12 0.217 11 9.856 12 9.273 5 9.266 10 9,401 99 9,401 99 9,401 (s) 8.781 (s)		Losses and co- products h	Geothermal f		Blectricity Jilion Wh 3,786 5,834 7,467 9,437 11,637 13,561 16,399 18,554 20,619 19,354 18,925 18,438 16,678 17,141 17,218 17,316 17,150	End use f,k	Electrical system energy losses	Total f,k
Year         short tons         cubic feet         Thousand barrels           1960         4,503         22         2,133         275         882         5,739         3,931         1           1965         5,824         36         2,977         301         838         6,754         5,372         1           1975         2,816         37         3,128         1,184         460         7,611         4,682         1           1980         3,538         55         3,573         1,312         278         5,203         5,917         1           1980         4,641         75         3,6825         1,526         705         2,853         7,184         1           1990         4,641         75         3,625         1,526         705         2,853         7,184         1           1990         3,451         99         3,661         1,338         718         1,777         6,010         1           2000         3,425         78         4,857         1,945         569         1,867         6,401         1           2005         3,295         76         7,105         1,244         1,639         2,406         6,553	kWh	waste f.g	and coproducts h	thermal f	NA NA NA NA NA NA (S)	Wh  3.786 5.834 7.467 9.437 11,637 13,561 16,399 18,554 20,619 19,354 18,998 18,925 18,438 16,678 17,141 17,218	=== === === === === === === === === ==	energy losses	======================================
1970 4,172 45 4,415 682 653 4,170 4,767 1 1975 2,816 37 3,128 1,184 460 7,611 4,682 1 1980 3,538 55 3,573 1,312 278 5,203 5,917 1 1985 4,219 51 3,389 1,707 686 3,408 6,831 1 1990 4,641 75 3,625 1,526 705 2,853 7,184 1 1995 3,551 99 3,661 1,338 718 1,777 6,010 1 2000 3,425 78 4,857 1,945 569 1,867 6,401 1 2000 3,425 76 7,105 1,244 1,639 2,406 6,553 1 2006 3,068 74 6,872 1,455 1,732 1,126 6,847 1 2007 3,135 75 7,114 1,081 1,081 1,681 6,580 1 2008 2,463 63 3,108 669 809 1,625 5,433 1 2010 2,773 68 2,419 676 971 1,476 5,044 1 2011 2,653 73 2,513 680 951 1,022 5,052 1 2012 2,475 80 2,822 672 959 855 4,548 2013 2,371 84 2,295 888 3,097 922 960 274 3,973 2014 2,128 88 3,097 922 960 274 3,973 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,825 889 739 349 8,4588 2017 1,522 101 2,605 838 10 761 40 R,4582 R 2019 1,498 107 2,714 654 758 253 R,4751 R 2020 1,253 110 2,161 612 763 57 R,4526 R 2021 1,298 118 2,644 1,024 759 135 R,4582 R 2022 1,197 113 2,672 1,289 784 138 4,860	4,687 41 7,7,064 38 6,282 27 6,021 27 5,893 0 3,504 14 5,639 13 8,947 13 8,932 6 7,7487 7 7,6554 19 0,585 12 0,217 11 0,585 12 0,217 11 9,856 12 9,273 5 9,266 10 9,469 12 9,401 9 9,311 (s) 8,781 (s)			======================================	NA NA NA NA (s) (s)	7,467 9,437 11,637 13,561 16,399 18,554 20,619 19,354 18,998 18,925 18,438 16,678 17,141 17,218	======================================	         	
1970 4,172 45 4,415 682 653 4,170 4,767 1 1975 2,816 37 3,128 1,184 460 7,611 4,682 1 1980 3,538 55 3,573 1,312 278 5,203 5,917 1 1985 4,219 51 3,389 1,707 686 3,408 6,831 1 1990 4,641 75 3,625 1,526 705 2,853 7,184 1 1995 3,551 99 3,661 1,338 718 1,777 6,010 1 2000 3,425 78 4,857 1,945 569 1,867 6,401 1 2000 3,425 76 7,105 1,244 1,639 2,406 6,553 1 2006 3,068 74 6,872 1,455 1,732 1,126 6,847 1 2007 3,135 75 7,114 1,081 1,081 1,681 6,580 1 2008 2,463 63 3,108 669 809 1,625 5,433 1 2010 2,773 68 2,419 676 971 1,625 5,544 1 2011 2,653 73 2,513 680 951 1,022 5,052 1 2012 2,475 80 2,822 672 959 855 4,548 2013 2,371 84 2,295 888 3,097 922 960 274 3,973 2014 2,128 88 3,097 922 960 274 3,973 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,864 987 745 326 4,747 2016 1,629 95 2,825 889 739 349 8,4588 2017 1,522 101 2,605 838 10 761 40 R,4582 R 2019 1,494 107 2,714 654 758 253 R,4751 R 2020 1,253 119 2,161 61 2,653 77 R,4226 R 2019 1,494 107 2,714 654 758 253 R,4751 R 2020 1,253 110 2,161 612 763 57 R 4,226 R 2021 1,298 118 2,644 1,024 759 135 R,4542 R 2022 1,197 113 2,672 1,289 784 138 4,860	4,687 41 7,7,064 38 6,282 27 6,021 27 5,893 0 3,504 14 5,639 13 8,947 13 8,932 6 7,7487 7 7,6554 19 0,585 12 0,217 11 0,585 12 0,217 11 9,856 12 9,273 5 9,266 10 9,469 12 9,401 9 9,311 (s) 8,781 (s)				NA NA NA NA (s) (s)	7,467 9,437 11,637 13,561 16,399 18,554 20,619 19,354 18,998 18,925 18,438 16,678 17,141 17,218	======================================	      	
1975	17,064   38   6,282   27   6,021   27   6,021   27   5,893   0   3,504   14   5,639   13   8,947   13   8,032   7   7,5,654   9   1,654   10   0,585   12   0,217   11   9,856   12   9,273   5   9,269   10   9,401   9   9,311   (s)   8,781   (s)   131   (s)	            	======================================	======================================	NA NA NA (s) (s)	9 437 11,637 13,561 16,399 18,554 20,619 19,354 18,988 18,925 18,438 16,678 17,141 17,218	=== === === === === === ===		
1980	6,282 27 6,021 27 5,893 0 3,504 14 5,639 13 8,947 13 8,032 6 7,7487 7 5,654 19 0,585 12 0,217 11 9,273 5 9,273 5 9,276 10 9,469 12 9,401 9 9,311 (s)	            			NA NA (s) (s)	11,637 13,561 16,399 18,554 20,619 19,354 18,998 18,438 16,678 17,141 17,218		======================================	    
1995	5,893				(s) (s)	16,399 18,554 20,619 19,354 18,998 18,925 18,438 16,678 17,141 17,218	    	======================================	    
1995	13,504				(s)	18,554 20,619 19,354 18,998 18,925 18,438 16,678 17,141 17,218	    	======================================	    
2005 3,295 76 7,105 1,244 1,639 2,406 6,553 1 2006 3,068 74 6,872 1,455 1,732 1,126 6,847 1 2007 3,135 75 7,114 1,081 1,081 1,631 6,580 1 2008 3,125 67 6,807 667 817 2,005 5,358 1 2009 2,463 63 3,108 669 809 1,625 5,443 1 2010 2,773 68 2,419 676 971 1,476 5,044 1 2011 2,653 73 2,513 680 951 1,022 5,052 1 2012 2,475 80 2,822 672 959 855 4,548 2013 2,371 84 2,950 808 1,001 553 3,960 2014 2,128 88 3,097 922 960 274 3,973 2015 1,708 95 2,664 987 745 326 4,747 2016 1,629 95 2,825 889 739 3,960 274 3,973 2017 1,522 101 2,605 838 748 105 85,014 R 2017 1,522 101 2,605 838 748 105 85,014 R 2018 1,526 103 2,538 810 761 40 R 4,632 R 2018 1,526 103 2,538 810 761 40 R 4,632 R 2018 1,526 103 2,538 810 761 40 R 4,632 R 2018 1,526 103 2,538 810 761 40 R 4,632 R 2019 1,494 107 2,714 654 758 253 R 4,751 R 2020 1,253 110 2,161 612 763 57 R 4,226 R 2021 1,298 118 2,644 1,024 759 135 R 4,551 R 2022 1,197 113 2,672 1,289 784 138 4,860	8,947 13 8,032 6 7,487 7 5,654 19 0,585 12 0,217 11 9,856 12 9,273 5 9,273 5 9,266 10 9,469 12 9,401 9 9,311 (s) 8,781 (s)		      	     	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	20,619 19,354 18,925 18,438 16,678 17,141 17,218	   		   
2006 3,068 74 6,872 1,455 1,732 1,126 6,847 1 2007 3,135 75 7,114 1,081 1,081 1,681 6,580 1 2008 3,125 67 6,807 667 817 2,005 5,358 1 2009 2,463 63 3,108 669 809 1,625 5,443 1 2010 2,773 68 2,419 676 971 1,476 5,044 1 2011 2,653 73 2,513 680 951 1,022 5,052 1 2012 2,475 80 2,822 672 959 855 4,548 2013 2,371 84 2,950 808 1,001 553 3,960 2014 2,128 88 3,097 922 960 274 3,973 2015 1,708 95 2,825 889 739 349 8,458 8 2017 1,522 101 2,605 838 748 105 8,5014 R 2018 1,526 103 2,538 810 761 40 R 4,632 R 2019 1,494 107 2,714 654 758 253 R 4,751 R 2020 1,253 110 2,161 612 763 57 R 4,226 R 2021 1,298 118 2,644 1,024 759 135 R 4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860	8,032 7,7487 7,75,654 9,1,654 10,0,585 12,0,217 11,9,856 12,9,273 9,226 10,9,469 12,9,401 9,401 9,311 (s) 8,781 (s)	     	      	     	(s) (s) (s) (s) (s) (s) (s) (s) (s)	18,998 18,925 18,438 16,678 17,141 17,218 17,316	   	   	  
2007         3,135         75         7,114         1,081         1,081         1,681         6,580         1           2008         3,125         67         6,807         667         817         2,005         5,388         1           2009         2,463         63         3,108         669         809         1,625         5,443         1           2010         2,773         68         2,419         676         971         1,472         5,044         1           2011         2,653         73         2,513         680         951         1,022         5,052         1           2012         2,475         80         2,822         672         959         855         4,548           2013         2,371         84         2,950         808         1,001         553         3,960           2014         2,128         88         3,097         922         960         274         3,973           2015         1,708         95         2,664         987         745         326         4,747           2016         1,629         95         2,825         889         739         349         R4,598	7,487 7,5,654 9,1,654 10,0,585 12,0,217 11,9,856 12,9,273 5,9,273 5,9,269 12,9,401 9,469 12,9,311 (s),8,781 (s) 9,131 (s)			     	(S) (S) (S) (S) (S) (S) (S) (S)	18,925 18,438 16,678 17,141 17,218 17,316	   	   	  
2009	5.654 9 1.654 10 0.585 12 0.217 11 9,856 12 9,273 5 9,226 10 9,469 12 9,401 9 9,311 (s) 8,781 (s)		    	    	(s) (s) (s) (s) (s) (s) (s)	18,438 16,678 17,141 17,218 17,316	 	 	
2010	0,585 12 0,217 11 9,856 12 9,273 5 9,226 10 9,469 12 9,401 9 9,311 (s) 8,781 (s) 9,131 (s)	    	    	  	(s) (s) (s) (s) (s)	17,141 17,218 17,316		==	
2011 2,653 73 2,513 680 951 1,022 5,052 1 2012 2,475 80 2,822 672 959 855 4,548 2013 2,371 84 2,950 808 1,001 553 3,960 2014 2,128 88 3,097 922 960 274 3,973 2015 1,708 95 2,664 987 745 326 4,747 2016 1,629 95 2,825 889 739 349 8,598 8 2017 1,522 101 2,605 838 748 105 78,014 R 2018 1,526 103 2,538 810 761 40 R 4,632 R 2019 1,494 107 2,714 654 758 253 R 4,751 R 2020 1,253 110 2,161 612 763 57 R 4,226 R 2021 1,298 118 2,644 1,024 759 135 R 4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860	0,217 11 9,856 12 9,273 5 9,226 10 9,469 12 9,401 9 9,311 (s) 8,781 (s)	======================================	   	 	(s) (s) (s) (s)	17,218 17,316			
2012 2,475 80 2,822 672 959 855 4,548 2013 2,371 84 2,950 808 1,001 553 3,960 2014 2,128 88 3,097 922 960 274 3,973 2015 1,708 95 2,664 987 745 326 4,747 2016 1,629 95 2,825 889 739 349 8,598 R 2017 1,522 101 2,605 838 748 105 8,5014 R 2018 1,526 103 2,538 810 761 805 85,014 R 2019 1,494 107 2,714 654 758 253 8,4751 R 2020 1,253 110 2,161 612 763 57 8,4226 R 2021 1,298 118 2,644 1,024 759 135 R4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860	9,856 12 9,273 5 9,226 10 9,469 12 9,401 9 9,311 (s) 8,781 (s)	   	   	 	(s) (s) (s)	17,316			
2014 2,128 88 3,097 922 960 274 3,973 2015 1,708 95 2,664 987 745 2016 1,629 95 2,825 889 739 349 R4,598 R 2017 1,522 101 2,605 838 748 105 R5,014 R 2018 1,526 103 2,538 810 761 40 R4,632 R 2019 1,494 107 2,714 654 758 253 R4,751 R 2020 1,253 110 2,161 612 763 57 R4,226 R 2021 1,298 118 2,644 1,024 759 135 R4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860  1960 114.9 23.3 12.4 1.0 4.6 36.1 24.5 1965 147.4 36.6 17.3 1.1 4.4 42.5 33.6 1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	9,226 10 9,469 12 9,401 9 9,311 (s) 8,781 (s)	  			(s) (s)	17 150			
2015 1,708 95 2,664 987 745 326 4,747 2016 1,629 95 2,825 889 739 349 R 4,598 R 2017 1,522 101 2,605 838 748 105 R 5,014 R 2018 1,526 103 2,538 810 761 40 R 4,632 R 2019 1,494 107 2,714 654 758 253 R 4,751 R 2020 1,253 110 2,161 612 763 57 R 4,226 R 2021 1,298 118 2,644 1,024 759 135 R 4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860	9,469 12 9,401 9 9,311 (s) 8,781 (s) 9,131 (s)	  			(S)				
2016 1,629 95 2,825 889 739 349 R4,598 R 72017 1,522 101 2,605 838 748 105 R5,014 R 72017 1,522 101 2,605 838 748 105 R5,014 R 72018 1,526 103 2,538 810 761 40 R4,632 R 72019 1,494 107 2,714 654 758 253 R4,751 R 72020 1,253 110 2,161 612 763 57 R4,226 R 72021 1,298 118 2,644 1,024 759 135 R4,542 R 72022 1,197 113 2,672 1,289 784 138 4,860	9,401 9 9,311 (s) 8,781 (s) 9,131 (s)				(e)	17,701 17,537			
2018 1,526 103 2,538 810 761 40 H4,632 H 2019 1,494 107 2,714 654 758 253 R4,751 R 2020 1,253 110 2,161 612 763 57 R4,226 R 2021 1,298 118 2,644 1,024 759 135 R4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860	8,781 (s) 9 131 (s)				(s)	17,648			
2019 1,494 107 2,714 654 758 253 H4,751 H 2020 1,253 110 2,161 612 763 57 R 4,226 R 2021 1,298 118 2,644 1,024 759 135 R 4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860 1960 114.9 23.3 12.4 1.0 4.6 36.1 24.5 1965 147.4 36.6 17.3 1.1 4.4 42.5 33.6 1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	9 131 (s)				1	17,169			
2020 1,253 110 2,161 612 763 57 R 4,226 R 2021 1,298 118 2,644 1,024 759 135 R 4,542 R 2022 1,197 113 2,672 1,289 784 138 4,860 1960 114.9 23.3 12.4 1.0 4.6 36.1 24.5 1965 147.4 36.6 17.3 1.1 4.4 42.5 33.6 1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	9,131 (8)				2	17,737 17,598			
2021 1,298 118 2,644 1,024 759 135 H4,542 H 2022 1,197 113 2,672 1,289 784 138 4,860 1960 114.9 23.3 12.4 1.0 4.6 36.1 24.5 1965 147.4 36.6 17.3 1.1 4.4 42.5 33.6 1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	7,819 (s)				3	17,596			
1960 114.9 23.3 12.4 1.0 4.6 36.1 24.5 1965 147.4 36.6 17.3 1.1 4.4 42.5 33.6 1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	9,103 (s)				3	19,712			
1965 147.4 36.6 17.3 1.1 4.4 42.5 33.6 1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	9,743 (s)				5	16,861			
1965 147.4 36.6 17.3 1.1 4.4 42.5 33.6 1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	Trillion Bt								
1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	78.7 R 0.3	25.5	NA	NA	NA	12.9	R 255.6 R 334.8	R 26.0	R 281.6
1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3	98.9 R 0.3 87.6 R 0.1	31.6 37.5	NA NA	NA NA	NA NA	19.9 25.5	Ragen	R 39.2 R 52.2	R 373.9 R 348.2
	100 0 B 0 1	24.4	NA	NA	NA	32.2	R 272 1	H 65 7	R 337.9 R 419.3
1980 88.1 55.4 20.8 4.6 1.5 32.7 36.7	96.3 R 0.1	55.3	NA	NA	NA	39.7	n 334.8	R 84.5	R 419.3
1985 106.7 52.8 19.7 5.8 3.6 21.4 42.9 1990 117.9 78.4 21.1 5.3 3.7 17.9 45.7	93.5 R 0.1 93.7 0.0	64.8 66.1	0.3 0.2	NA 0.0	NA (s)	46.3 56.0	R 364.2 412.2	R 94.0 R 128.1	R 458.3 R 540.3
1995 90.7 101.8 21.3 4.6 3.7 11.2 38.1	79.0 R (s)	81.4	0.2	0.0	(s)	63.3	R 416.3	H 148.4	R 564.7
2000 91.5 80.8 28.3 6.7 3.0 11.7 40.5	90.1 <u>h</u> (s)	78.2	0.1	0.0	(s)	70.4	410.9	H 166 8	R 577.7
	111.4 R (s) 104.5 R (s)	73.4 69.9	(s) (s)	0.0 0.0	(S)	66.0 64.8	417.5 396.7	R 151.6 R 147.8	R 569.0 R 544.5
2007 82.5 77.7 41.1 3.7 5.6 10.3 41.7	102.3 R (s) 92.0 R (s)	67.4	(s)	0.0	(s)	64.6	R 394 4	R 146.6 R 142.5	R 541.0
2008 81.8 69.6 39.3 2.2 4.2 12.6 33.6	92.0 R (s)	65.3	(s)	0.0	(s)	62.9	R 371.6	R 142.5	R 514.1
2009 64.3 65.4 18.0 2.2 4.1 10.2 34.5 2010 72.7 70.1 14.0 2.6 4.9 9.3 32.6	69.1 R (s) 63.3 R (s)	59.8 53.1	(s) (s)	0.0 0.0	(s)	56.9 58.5	315.5 R 317.8	n 124.8	R 440.3 R 445.5
2010 72.7 70.1 14.0 2.6 4.9 9.3 32.6 2011 70.3 75.3 14.5 2.6 4.8 6.4 32.8	61.0 B (a)	E1 2	(S)	0.0	(S)	58.7	R 316.8	R 124.8 R 127.7 R 123.6	R 440.4
2012 676 827 163 26 49 54 296	58.7 R (s)	51.7	(s)	0.0	(s)	59.1	319.9	<sup>H</sup> 120 8	R 440.7
2013 64.6 87.5 17.0 3.1 5.1 3.5 25.4	54.1 _ (s)		(s)	0.0	(s)	58.5	320.6	R 120.8	R 441.4
2014 58.4 92.3 17.8 3.5 4.9 1.7 25.5 2015 47.5 99.0 15.4 3.8 3.8 2.0 30.7	53.5 R (s) 55.6 R (s)		2.Ó	0.0 0.0	(S)	60.4 59.8	326.6 R 327.6	R 123.7 R 118.3	R 450.3
2016 45.7 100.1 16.3 3.4 3.7 2.2 29.7	55.3 <sup>rt</sup> (s)	58.2	2.3 1.3	0.0	(s)	60.2	320.8	R 118.3 R 115.2	R 445.9 R 436.0
2017 43.0 106.2 15.0 3.2 3.8 0.7 <sup>R</sup> 31.7 <sup>F</sup>	<sup>rt</sup> 54 3 (s)	63.1	2.8	0.0	(s)	58.6	R 328.0	H 107 6	H 435.6
2018 43.0 109.2 14.6 3.1 3.8 0.3 R 29.2 F 2019 42.1 112.8 15.6 2.5 3.8 1.6 R 30.0 F	R 51.0 (s) R 53.6 (s)	62.0 58.4	2.4 0.2	0.0	(s)	60.5 60.0	R 328.2 R 327.1	R 108.9 R 103.4	R 437.1 R 430.5
2020 35.3 116.6 12.4 2.4 3.9 0.4 726.7	00.0 (8)	58.5	0.1	0.0	(s)	59.6	R 315.8	R 98.6	R 414.3
2021 36.5 125.1 15.2 3.9 3.8 0.8 <sup>R</sup> 28.8 <sup>F</sup>	R 45.7 (s)	58.1	(s) (s)	0.0	(s)	67.3	n 339.6	H 111.0	R 450.6
2022 33.7 119.8 15.4 5.0 4.0 0.9 30.8	R 45.7 (s) R 52.7 (s) 56.0 (s)		(s)	0.0	(s)	57.5	323.9	93.5	417.4

a Includes supplemental gaseous fuels that are commingled with natural gas.

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Virginia

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses	Total <sup>g,h</sup>
1960	77	4	382 721	4,099 6,564 7,698	7	4,441 6,504	451	29,972 34,992	11,780 9,645 12,000	51,134 58,877	0			
1965 1970	19	7	721	6,564	24 47	6,504	451 428 430	34,992	9,645	58,877	0			
1970 1975	(s)	8	356 251	7,698 8,217	4/ 57	11,093 11,602	430 427	47,821 58,524	12,000	79,446 85,436	0			==
1980	(3)	8	251 218	11.219	57 47	12,279	530	58.386	6,356 4,419	87,098	32	==		
1980 1985	0	4	131	11,219 14,305	102	11,038	530 482 542	58,386 61,837	3,419	91,313	60			
1990	0	7	70	16,749	63	15,806	542	69,150	3,316	105,696	86			
1995 2000	0	6	85 97	18,418 24,840	64 35 67	10,589 9,943	518 553 466	77,978 84,937	1,923 4,225	109,575 124,630	86 96			
2005	0	5	223	28 426	67	18.845	466	93.557	1 930	143 515	163			
2006	Ö	6	61 197	31,389 29,916	72 63	18,809 19,024	454 469	95,243 97,824	1,695 1,327	147,724 148,820	163			
2007	0	7	197	29,916	63	19,024	469	97,824	1,327	148,820	193			
2008 2009	0	9	180 214	26,100	129	16,520 15,693	436 392	94,542 93,355	991 598	138,898	194 193			
2010	0	10	93	25,018 25,563	83 30	19,868	686	95,362	809	135,353 142,411	189			
2011	ŏ	14	88	25 427	30	19.300	632	89.347	1.091	135.914	188			
2012	Ö	10	83 73 97	25,714 25,741 26,299	32 37 27	18.917	603	91 588	1 069	138,005	188			
2013	0	9	73	25,741	37	19,690	623 647	91,714 93,779	653 537	138,530	195			
2014 2015	0	8 8	97 64	26,299 25,746	27	21,912	647 688	93,779 92,483	257	143,296	202 196			
2016	0	9	71	25,459	33 41	22,948 26,009	688 R 653 R 600	93,860	461	142,219 R 146,552	183			
2017	Ŏ	10	69	25,301	39	26,633	R 600	94.359	785	147.786	178			
2018	0	11	81	28,280	46	26,696	R 589	94,406 93,652	258 213	R 150,356 R 151,840	199			
2019	0	14	86	30,039	46 42 27	27,227	n 581	93,652 83,368	213	R 128,477	190			
2020 2021	0	11 14	69 78	28,517 R 27,671	33	15,605 17,241	R 589 R 581 R 523 R 541	90,826	368 419	R 137,002	164 175			
2022	Ö	15	81	26,135	52	21,617	542	86,535	429	135,549	130			
							Tri	llion Btu						
1960	2.0	4.1	1.9	23.9	(s) 0.1	24.0	2.7	157.4	74.1	284.1	0.0	290.2	0.0	290.2
1965 1970	0.5 0.2	7.0 8.0	3.6 1.8	38.2 44.8	0.1 0.2	35.8 61.9	2.6 2.6 2.6	183.8 251.2	60.6 75.4	324.8 438.0	0.0 0.0	332.2 446.1	0.0	332.2 446.1
1970	(9)	3.1	1.3	44.6 47.9	0.2	64.9	2.0	307.4	40.0	464.3	0.0	467.4	0.0 0.0 R 0.2 R 0.4	467.4
1980	(s) 0.0	8.4	1.1	65.3	0.2	68.8	3.2	306.7	27.8	473.1 495.3 574.1 588.9	0.1	481.6	R 0.2	481.8
1985	0.0	4.6	0.7	83.3	0.4	61.7	3.2 2.9 3.3	324.8 363.2	21.5	495.3	0.2	502.3	R 0.4	481.8 R 502.7 583.6
1990	0.0	7.2	0.4	97.6	0.2	88.5	3.3	363.2	20.8	574.1	0.3	582.9	0.7	583.6
1995 2000	0.0 0.0	6.6 8.5	0.4 0.5	107.2 144.5	0.2 0.1	60.0 56.4	3.1 3.4	405.8 441.8	12.1 26.6	566.9 673.2	0.3 0.3	595.8 682.0	0.7 0.8	596.5 682.8
2005	0.0	8.5 5.3	1.1	165.4	0.3	106.9	2.8	485.7	12.1	673.2 774.3	0.6	780.3	1.3	781.6
2006	0.0	5.8	0.3	182.1	0.3	106.6	2.8	493.8	10.7	796.6	0.6	803.1	1.3 1.3 1.5 8 1.5	804.4
2007	0.0	7.3 8.9	1.0	173.0 150.9	0.2	107.9 93.7	2.8 2.6	503.0 482.7	8.3 6.2	796.3 737.5	0.7	804.5 747.3	1.5	R 806.0 R 748.8
2008 2009	0.0 0.0	8.9 9.3	0.9 1.1	150.9 144.5	0.5 0.3	93.7 89.0	2.6	482.7 475.2	6.2 3.8	/3/.5 716.2	0.7 0.7	747.3 726.2	H 1 /	H 707 6
2010	0.0	10.5	0.5	147.6	0.3	112.7	2.4 4.2	483.2	5.0 5.1	710.2 753.3	0.7	726.2 764.4	R 1.4	765.9
2011	0.0	14.6	0.4	146.7	0.1	109.4	3.8	452.4	6.9	753.3 719.8	0.6	735.0	R 1.4 R 1.3 R 1.3	R 736.3
2012	0.0	10.0	0.4	148.3	0.1	107.3	3.7 3.8	463.6	6.7	730.1	0.6	740.8	R 1.3	R 742.1
2013	0.0	9.0	0.4	148.3	0.1	111.6	3.8	464.1	4.1	732.4	0.7	742.1	1.4 R 1.4 R 1.3	765.9 R 736.3 R 742.1 R 743.5 R 768.2 R 763.0
2014 2015	0.0 0.0	8.0 8.6	0.5 0.3	151.6 148.3	0.1 0.1	124.2 130.1	3.9 _ 4.2	474.4 467.7	3.4 1.6	758.1 752.4	0.7 0.7	766.8 761.7	1.4 R 1.3	11 /68.2 R 763.0
2016	0.0	9.2	0.4	146.6	0.2	147.5	R40	474.5	2.9	775.9	0.6	785.7	_ 1.2	786.9 P 794.3
2016 2017	0.0	10.1	0.3	146.6 145.7	0.1	151.0	3.6 3.6	476.8	2.9 4.9	775.9 782.5	0.6	785.7 793.2	1.2 R 1.1 R 1.2	R 794.3
2018	0.0	11.2	0.4	162.9	0.2	151.4	3.6	477.1	1.6	797.1	0.7	809.0	H 1.2	R 810.2
2019 2020	0.0 0.0	14.7 11.6	0.4 0.3	1/3.0	0.2 0.1	154.4 88.5	3.5 3.2	473.1 421.2	1.3 2.3	R 806.0	0.6 0.6	821.3 R 691.9	R 1.1 R 0.9	822.4 692.8
2020	0.0	14.6 15.4	0.3	173.0 164.1 R 159.5 150.7	0.1	97.8	R 3.3 3.3	421.2 458.7	2.3 2.6	679.7 R 723.4 717.6	0.6	R 738.5 733.5	R 1.0	692.8 R 739.5 734.2
			0.4		0.2	122.6		436.9	2.7				0.7	

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Information Administration. State Energy Data Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Virginia

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million ki	ilowatthours		Total <sup>f,i</sup>
1960	6,262	1	6	0	130	136	0	1,189		0	NA	NA	0	_
965 1970	8,265 6,644	2	7	0	170	178	0	797		Õ	NA	NA	Ō	-
970 975	6,644	4	721	856 0	17,085	18,662	0	650		0	NA	NA	0	-
975 980	3,991 5,560	(s) 2	624 793	0	26,741 14,586 1,301	27,364 15,379	8,970 11,466	1,273 864		0	NA NA	NA NA	0	_
985	7,166	2	340	0	1.301	1,641	22,303	818		0	0	0	0	-
990	9.083	10	553 683 966	Ö	1,421 1,577	1 973	23,820 25,135	1 309		0	(s)	Ö	Ö	-
995	11,248	45 37	683	0	1,577	2,260 4,339	25,135	981 699		0	(s) (s)	0	0	-
000	16,098	37	966	0	3,373	4,339	28,321 27,918	699		0	0	0	0	-
005	14,920	67	1,405 460	0	5,456	6,862	27,918	1,471		0	0	0	0	-
006 007	14,194 14,913	60 91	1,115	0	851 2,166	1,312 3,281	27,594 27,268	1,345 1,242		0	0	0	0	-
800	13.368	77	755	Ŏ	1.223	1.978	27.931	1.002		ő	ő	Ŏ	ŏ	-
009	10,803	95 140	998 935	Ö	1,223 746 1,225	1,744 2,160	28,212	1,468 1,488		Ö	0	0	Ó	-
010	10.958	140	935	0	1,225	2,160	26,572	1,488		0	0	0	0	-
011	8,799 6,497	142 190 172	468 353 344	0	369 247 177	837	25,548 28,723	1,199 1,032 1,248		0	0	0	0	-
012 013	6,497 9,869	190	353	0	247	600 521	28,723	1,032		0	0	0	0	-
013	9,513	159	1,521	0	582	2,103	29,326 30,221	945		0	0	0	0	-
015	7,961	243	1,003	0	900	1,902	28,060	1,146		0	0	0	0	-
016	7,828	243 295	588	Ö	388	976	29,732	1,463		Ŏ	21	Ö	Ŏ	
017	5.275	311	607	Ö	209	816	30 554	1.116		Ö	313	Ö	28	-
018 019	4,939 1,973	357 409	1,168 263	0	415	1,584 403	29,252 29,498	1,765 1,519		Q	763 947	0	30	
019	1,973	409	263	0	140	403	29,498	1,519		0	947	0	0	-
020 021	1,814	450	269 475	0	100	369 531	30,140 28,572	2,030		0	1,369 3,266	0 50	0	-
2022	1,482 1,652	450 382 348	1,073	0	100 55 33	1,106	28,197	1,305 1,137		ő	4,624	51	0	-
							Trillion Btu							
960	167.4	1.5 2.3	(s) (s) 4.2 3.6 4.6 2.0 3.2 4.0	0.0	0.8	0.9	0.0	R 4.1	0.0	0.0	NA	NA	0.0 0.0	R 173. R 225.
965	218.8	2.3	(s)	0.0	1.1	1.1	0.0	H 2.7	0.0	0.0	NA	NA	0.0	H 225
970	164.6	4.4 0.5	4.2	5.2	107.4	116.8 171.8	0.0 98.8	R 4.2	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0	R 288 R 370 R 365 R 435 R 516 R 627 R 781
975 980 985	164.6 95.5 139.1	2.5	3.0 4.6	0.0 0.0	168.1 91.7	96.3	125.1	R 2.7 R 2.2 R 4.3 R 2.9 R 2.8	0.0	0.0	NA NA	NA NA	0.0 0.0 0.0	R 36
985	183.6	1.6	2.0	0.0	8.2	96.3 10.2	236.9	R 2.8	0.0	0.0	0.0	0.0	0.0	R 43
990 995	231.3 287.3	10.1 46.4	3.2	0.0	8.9 9.9	12.2	252.1	R 4.5	6.6	0.0	(s) (s)	0.0	0.0	R 51
995	287.3	46.4	4.0	0.0	9.9	13.9	264.1	H 3.3	12.9	0.0	(s)	0.0	0.0	H 62
000	413.3	38.1	5.6	0.0	21.2	26.8	295.4	n 2.4	5.7	0.0	0.0	0.0	0.0	n 78
005 006	368.6 352.4	69.1 62.1	8.2 2.7 6.4 4.4 5.8 5.4	0.0 0.0	34.3 5.4	42.5 8.0	291.4 287.9	11 5.0 R 4.6	13.8 12.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	R 79 R 72
007	373.7	93.3	6.4	0.0	13.6	20.1	286.0	R 4.0	13.1	0.0	0.0	0.0	0.0	R 79
007	331.3	80.1	4.4	0.0	7.7	12.1	291.9	R 3.4	16.2	0.0	0.0	0.0	0.0	R 79 R 73 R 69 R 72
008 009	331.3 268.0	80.1 98.4	5.8	0.0	7.7 4.7 7.7	10.5	295.1	R 5.0	16.2 15.7 16.3	0.0	0.0	0.0 0.0	0.0 0.0	R 69
010	271.2	144.3	5.4	0.0	7.7	13.1	277.7	R 5.1	16.3	0.0	0.0	0.0	0.0	R 72
011	215.6 153.4	146.3	2.7	0.0	2.3	5.0 3.6	267.3	H 4.1	15.9	0.0	0.0	0.0	0.0 0.0	H 65
012	153.4	196.1	2.7 2.0 2.0 8.8 5.8 3.4 3.5 6.7	0.0	1.6	3.6	301.0	R 4.5 R 3.3 R 2.4 R 5.0 R 4.6 R 4.2 R 3.4 R 5.1 R 4.1 R 3.5 R 4.3	17.2	0.0	0.0	0.0	0.0	R 65, R 67, R 73 R 74, R 78, R 84,
013 014	224.5 218.0	177.6 165.5	2.0	0.0 0.0	1.1	3.1 12.4	306.4 316.1	R 2 2	22.1 33.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	R 74
014	183.6	165.5 256.9	6.6 5.8	0.0	3.7 5.7	11.4	293.5	R 3 9	33.6	0.0	0.0	0.0	0.0 0.0	R 78
016	176.4	310.8	3.4	0.0	2.4	5.8	311.0	R 5.0	33.6	0.0	Rn 1	0.0	0.0	R 84
2017 2018	115.8	327.4 374.0	3.5	0.0	1.3	4.8 9.3	319.6	R 3.8	28.4 35.7	0.0	B 1.1	0.0	0.1 0.1	R 800 R 839
018	105.6	374.0	6.7	0.0	2.6	9.3	305.8	R 3.2 R 3.9 R 5.0 R 3.8 R 6.0	35.7	0.0	R 1.1 R 2.6 R 3.2 R 4.7	0.0	0.1	R 83
2019	42.5	428.6	1.5	0.0	0.9	2.4	308.0	H 5.2	31.2	0.0	H 3.2	0.0	0.0	H 82
2020	39.9	469.0	1.5	0.0	0.6	2.2	314.8 B 200.0	n 6.9	27.9	0.0	R 11.1	0.0 R 0.2	0.0	R 86
2021 2022	31.8 33.8	398.4 363.2	2.7 6.2	0.0 0.0	0.3 0.2	3.1 6.4	R 298.0 294.1	R 5.2 R 6.9 R 4.5 3.9	33.1 29.9	0.0 0.0	11.1	0.2	0.0 0.0	R 780 747
	00.0	000.2	0.2	0.0	0.2	0.7	ZUT. 1	0.0	20.0	0.0	10.0	٧.٢	0.0	

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Washington

						Petroleum								
										-	Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
	Thousand short tons	Billion cubic feet				Thousand barrels				M	illion kilowatthour	s	Thousan	d barrels
1960	608	65 108 150	18,123 17,116	548 1 227	4,502 6 010	23,076	9,300 9,140	7,709	63,257 71,937	0	34,349 49,295 69,525	0	NA NA	NA NA
1965 1970	488 245	150	17,116 18,201	1,227 1,659	6,919 10,637	26,906 36,068	10,384	10,629 13,212	71,937 90,161 92,628 98,375	2,614	69,525	0	NA	NA
1971	272	157	18.642	1,659 1,368	11.721	36.788	9.482	14.337	92,628	2,553	71,589 75,883	0	NA	NA
1972 1973	2,179 3,924	170 198	19,374 20,242	1,368 1,164	10,680 11,762	38,036 39,861	11,824 11,306	17,093 17,065	98,375 101,399	2,919 4,432	75,883 69.016	0	NA NA	NA NA
1974 1975	3,924 3,213	183 164	16,859 16,970	1,147	12,312 14,037	39,752 41,007	11,306 10,180	15,589 16,386	101,399 95,839 97,622	3,889 3,308	69,016 82,491 83,708	ő	NA	NA
1975	4,492	164	16,970	763	14,037	41,007	8.459	16,386	97,622	3,308	83,708	0	NA	NA
1976 1977	4,794 6,068	149 143	18,680 20,281	813 957	12,990 12,093	43,311 45,412	7,411 9,622	16,320 18,433	99,524 106,797	2,405 4,315	94,457 66,617	0	NA NA	NA NA
1978	4,973	127	21,243	1,300	11,480	47,438	11,455	17,708	110,624	4.140	88,906	0	NA	NA
1978 1979	4,973 5,860	127 159	21,243 21,716	1,300 1,522	11,480 12,715	47,438 45,399 42,653	11,455 12,856	17,708 16,111	110,319	3,613	88,906 79,511	0	NA	NA
1980 1981	5,443 5,448	129 125	18,471 17,617	1,487	12,036	42,653 43,029	17,277	13,446 15,682	110,624 110,319 105,370 106,320 103,427	2,041 2,042	83,111 93,701 87,705	0	NA 28	NA NA
1982	5,448 4,393	109	18.159	1,565 1,706 1,705 2,133	12,081 12,800	43.197	16,346 13,521	14.044	100,320	3,631	87.705	0	17	NA
1983 1984	4,794 4,926	107	16,302 18,104	1,705	12.830	44,713 46,140	4,936 9,967	13,883 15,193	94,370	3.494	85,564	0	18 20	NA
1984 1985	4,926 5,616	126	18,104	2,133	15,646 15,417	46,140 44,020	9,967 11,406	15,193 15,114	107,184	5,313	83,431	0	20 14	NA NA
1986	3,790	135 118	20,008 23,295	2,466 2,525 3,345 2,828 3,399	17,073	46,950	15,553	14,686	94,370 107,184 108,432 120,081	8,038 8,439	85,564 83,431 77,053 78,960	0	58	NA NA
1987	5 819	132	19 380	3,345	18 596	51 252	15,553 13,771	19.000	125 343	5.528	69,827 68,508	ő	131	NA
1988 1989	5,929 5,843	147	20,322 20,786	2,828	20,647 20,592	50,699 53,814	16,339 15,685	20,012	130,847 135,811	6,000	68,508	0	133	NA NA
1989 1990	5,843 5.147	163 163	20,786	3,399 2,292	20,592 22,343	53,814 53,464	15,685 16,272	21,535 21,122	135,811 135,649	6,118 5,742	71,528 87,467	0	185 205	NA NA
1991	5,147 5,461	163 174	20,155 19,819	2,292 2,596	22,343 21,306	53,464 54,238	16,272 17,297	20.077	135,649 135,333 149,720 136,862 143,057 145,928	5,742 4,230	87,467 89,342	Ŏ	241	NA
1992 1993	6,402 5,934	175	19,543 18,955	2,549 2,582 2,594 2,913	24,066 22,226	55,196 57,385	23 178	25,188 19,994	149,720	5,692 7,135	68,325 67,312	0	1,123 1,945	NA
1993 1994	5,934 6,303	221 253 254 274	18,955 22,834	2,582	22,226 21,492	57,385 57,446	15,720 15,530	19,994 23,160	136,862	7,135 6,740	67,312 65,575	0	1,945	NA NA
1995	4,158	254	21 307	2,913	23,039	58 836	17,305	22,527	145,928	6.942	65,575 82,500	0	2,245 739	NA NA
1996	5.682	274	22,488 24,543 21,859	3,195	22,323	61,611 61,213 61,833	12.768	22,527 24,814 22,242 28,616	147.198	5.588	98,518 104,171 79,815	0	328	NA
1997 1998	4,948 6,241	256 290	24,543	5,116 4,716	22,464 21,879	61,213	12,924 9,632	22,242	148,502 148,536	6,244 6,916	104,171	0	621 835	NA NA
1999	5.838	287	24.237	4,710	22,155	63.239	7.989	30.984	153.062	6.086	96.989	0	710	NA
1999 2000	5,838 6,501	287 287	25,122	4,458 6,456	22,155 24,726	63,053	7,989 7,551	30,984 24,916	151,824	6,086 8,605	96,989 80,263	Ö	800	NA
2001 2002	6,151	312	24,128	7,083	21,815 18,076	63,492	6,415	18,061 17,526	140,994	8,250 9,048	54,734	0 417	581 1,687	6 10
2003	6,252 7,427	234 250	24,237 25,122 24,128 24,826 24,266	4,030 2 735	17,493	63,239 63,053 63,492 64,544 64,317	5,447 6,071	17 357	153,062 151,824 140,994 135,249 132,237	7,615	70,107	604	1,007	8
2004	6,986	262 265	24,003 24,753	4,830 2,735 2,752 2,779	19,219	64,302 65,216	6,535 7,785	19,280 21,333	136,092 140,346	8,982	54,734 78,167 71,757 71,576 72,075	737 498	1,622 544 2,129	16
2005	7,067	265	24,753	2,779	18,480	65,216	7,785 6,207	21,333	140,346	8,242	72,075	498	2,129	8 16 53 153 207
2006 2007	4,219 5,818	263 273	29,918 30,471	2,773 2,667	18,588 20,451	65,712 65,893	9,983	22,249 20,985	145,446 150,450 143,994 138,781	9,328 8,109	82,008 78,829	1,038 2,438	2,335 2,942	207
2008	5.911	298	29 996	4.696	20 110	63.891	4.509	20.792	143,994	9.270	77,637	3.657	5.156	1/8
2009	5,144 5,868	310	24,658 24,624	4,337	18,293 13,184	64,569	7,253	19,670	138,781	6,634	72,933	3,572	5,993	188
2010 2011	5,868 3,522	286 265	24,624	4,206 4,502	13,184	63,817	6,715	18,565 17,045	131,110	9,241	68,288	4,745 6,262	5,138 5,297	152 518
2012	2.612	265 265	25,919 23,636	4,502 4,254	13,260 12,943	63,269 62,725	8,029 10,069	17,045 18,419	132,046	4,806 9,334	89,464	6.600	5,297 5,058	473
2013	4,534 4,616	318	22,874	4,246	14 037	65,300 64,960	9 731	16,794	132,982	8.461	78,155	7 004	5,311	457
2014 2015	4,616 3,507	307 308	22,874 24,107 26,053	4,246 4,211 3,765	14,536 16,262	64,960 67,072	6,491 8,741	18,419 16,794 16,286 18,313 R 17,306 R 16,753 R 16,588 R 16,485 R 14,587 R 14,614 14,291	138,781 131,110 132,024 132,046 132,982 130,590 140,205 R 151,166 R 146,192 R 148,036 R 151,400 R 119,039 R 134,785	9,497 8,161	77,637 72,933 68,288 91,818 89,464 78,155 79,463 73,405 78,346 82,183 80,883 66,018 76,410	7,268 7,075	5,311 5,685 6,960	188 152 518 473 457 482 521
2016	3,175	301	27,147	4,295	17,503	67,014	17,901	R 17,306	R 151,166	9 626	78,346	8 042	6,881	543
2017	3,175 3,699	301 325	27,147 26,070	4,295 4,289	17,503 18,470	67,014 66,926	17,901 13,684	R 16,753	R 146,192	8,128	82,183	6,925	6,966	543 521
2018 2019	3,702	308	28,590 28,363	4,624	18,527 19,598	69,395 69,974	10,312 12,181	n 16,588 R 16 405	T 148,036	9,708 8,866	80,883	7,900 6,677	7,162	572
2020	3,702 4,883 3,558	R 329	26 559	4,624 4,798 4,475	12.360	55 140	5 918	R 14.587	R 119.039	9.427	76.410	9.266	7,353 5.849	531
2021 2022	2,198	308 348 R 329 R 354 351	R 26,464	4,938	16,021	60,428 60,722	12,319 12,624	R 14,614	R 134,785	8,511	71,379 78,916	9,298	6,881 6,966 7,162 7,353 5,849 6,452 6,498	572 567 531 R 529 534
2022	2,482	351	26,690	4,958	17,911	60,722	12,624	14,291	137,196	9,852	78,916	8,061	6,498	534

a Includes supplemental gaseous fuels that are commingled with natural gas.
b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Washington (trillion Btu)

					Fossi	fuels						Fossil fuels	
						Petroleum						(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	15.2	67.2	105.6	2.1	24.4	121.2	58.5	45.1	356.8	439.2	67.2	105.6	121.2
1960 1965	12.1	67.2 116.2	105.6 99.7	2.1 4.7	24.4 38.2	121.2 141.3 189.5 193.2	58.5 57.5 65.3 59.6	64.4	356.8 405.8 506.7 520.4	534.1	67.2 116.2 158.2 165.3	105.6 99.7	121.2 141.3 189.5 193.2
1970 1971	5.9 6.4	158.2 165.3	106.0 108.6	6.3 6.3	59.3 65.4	189.5	65.3	80.3	506.7	670.8 692.1	158.2	106.0	189.5
19/1	6.4	165.3 179.8	108.6	6.3	65.4 50.6	193.2	59.6 74.3	87.2 104.1	520.4 555.0	692.1 772.3	165.3	108.6 112.9	193.2
1972 1973 1974	36.6 65.0 54.2	208.0	112.9 117.9 98.2	5.2 4.4 4.3	59.6 65.8 68.9	199.8 209.4 208.8	74.3	104.1	555.9 572.8 539.1	772.3 845.7	179.8 208.0 191.3	112.9	199.8 209.4 208.8
1974	54.2	191.3	98.2	4.3	68.9	208.8	71.1 64.0	104.2 94.9	539.1	845.7 784.6	191.3	117.9 98.2	208.8
1975	76.2 81.2	171.2 154.9	98.8 108.8	2.9 3.0	78.8 72.9	215.4	53.2 46.6	99.8 99.6	548.9	796.4 794.5	171.2	98.8 108.8	215.4 227.5
1976	81.2 102.4	154.9 149.1	108.8 118.1	3.0 3.5	72.9 67.7	227.5	46.6 60.5	99.6 112.1	558.4	794.5 852.0	154.9	108.8	227.5
1978	84.7	133.3	123.7	4.8	64.3	249.2	72.0	107.6	621.7	839.7	133.3	123.7	249.2
1975 1976 1977 1978 1979	84.7 99.0	133.3 165.9	123.7 126.5 107.6	4.8 5.6 5.5 5.8	64.3 71.4	215.4 227.5 238.5 249.2 238.5 224.1 226.9 234.9 242.4 231.2 246.6 269.2 266.3 282.7 280.8 284.9 289.9 299.6	80.8	98.2	548.9 558.4 600.5 621.7 621.0 594.8 600.9 582.0 524.0 599.0 607.4 675.9 701.4 735.4 761.5 763.2 761.6 847.7 759.0	886.0	171.2 154.9 149.1 133.3 165.9 135.5 131.2 114.4	118.1 123.7 126.5	238.5 249.2 238.5
1980 1981	91.0	135.5 131.2	107.6 102.6	5.5	67.5	224.1	108.6 102.8	81.5	594.8	821.2 822.9	135.5	107.6	224.1 226.0
1981	90.9	131.2 114.4	102.6 105.8	5.8 6.3	67.8 71.9	226.0 226.9	102.8 85.0	95.8 86.2	600.9 582.0	822.9 770.5	131.2	102.6 105.8	226.0 226.9
1982 1983	74.1 80.2	111.8	105.8 95.0	6.3 6.3 7.7 8.8	72.1	234.9	85.0 31.0	86.2 84.7	524.0	716.0	111.8	105.8 95.0	226.9 234.9
1984	82.3	132 0	105.5	7.7	87.9	242.4	62 7	92 8	599.0	813.2	132.0	105.5	242.4
1985	93.7	140.0 121.8	105.5 116.5 135.7	8.8	86.6	231.2	71.7 97.8	92.5 90.7	607.4	841.1	140.0	116.5 135.7	231.2
1984 1985 1986 1987 1988	82.3 93.7 63.3 95.7 99.1	136.1	135.7	9.1 12.1	96.1 104.7	246.6 269.2	97.8 86.6	90.7 115.9	6/5.9 701.4	861.0 933.2	132.0 140.0 121.8 136.1 150.6 168.0 167.6 179.4 180.8 229.6	135.7 112 9	242.4 231.2 246.6 269.2 266.3 282.7 280.8 284.9 289.9 299.4
1988	99.1	150.5	112.9 118.4	12.1 10.2 12.3 8.3 9.4 9.3 9.4 9.5 10.7	116.3	266.3	102.7	121.4	735.4	933.2 985.0	150.6	133.7 112.9 118.4 121.1 117.4 115.4 113.8	266.3
1989	96.7	167.8	121.1	12.3	116.0	282.7	98.6	130 7	761.5	1 025 9	168.0	121.1	282.7
1990	85.6	167.4	121.1 117.4 115.4	8.3	126.0	280.8	102.3	128.3	763.2	1,016.2 1,029.9 1,134.4	167.6	117.4	280.8
1991 1992	89.1 106.1	179.2 180.6	113.8	9.4	120.2 136.0	284.9 289.9	108.7 145.7 98.8	122.8 153.0	761.6 847.7	1,029.9	179.4	1 15.4 113 8	284.9 289.9
1992 1993	97.8	180.6 229.6	110 4	9.4	136.0 125.6	292.6	98.8	153.0 122.1	759.0	1.086.4	229.6	110.4	299.4
1994 1995 1996	106.9 69.8	263.2 264.5	132.9 124.0 130.9	9.5	121.7 130.4	291.7	97.6	141.3	794.8 815.2 820.4 822.6 822.4 848.4 835.0	1,164.8 1,149.4	263.2 264.5 283.9	132.9 124.0	299.5 306.2 321.1 318.6 321.7
1995	69.8 90.9	264.5 283.9	124.0	10.7 11.6	130.4 126.5	303.6	108.8 80.3	137.6 151.1	815.2	1,149.4 1,195.2	264.5	124.0 130.9	306.2
1996	80.5	268.1	130.9	18.8	127.4	319.9	81.3	135.9	820.4 822.6	1,171.2	268.1	130.9	321.1 318.6
1997 1998	103.5	303.3	142.8 127.2	17 3	124.1	318.8	60.6	174.5	822.4	1.229.2	303.3	142.8 127.2	321.7
1999	96.9	302.3 297.6	141.0 146.2	16.3 23.1 25.4 18.1	125.6	326.5	50.2 47.5	188.7 152.9	848.4	1,247.5 1,238.8	268.1 303.3 302.3 297.6	141.0	329.0 327.9
2000 2001	106.2 99.4	297.6 322.4	146.2	23.1	140.2 123.7	325.2	47.5	152.9 110.4	835.0	1,238.8 1,190.2	297.6	146.2	327.9 330.2
2002	100.8	240.5	144.5	18.1	102.5	329.7	40.3 34.2	107.3	768.4 736.3	1,077.6	240.5	140.4 144.5	335.6
2003 2004 2005	118 2	255.8	140.4 144.5 141.2	10.3	99.2	328.6	38.2	105.7	723.2 749.5 768.7	1 097 2	322.4 240.5 255.8	141 2	335.6 334.3 334.1 338.6
2004	112.5 112.3	269.6 272.2	139.6 144.0	10.3 10.6	109.0 104.8	332.2	41.1 48.9	117.3	749.5	1,131.6 1,153.1	269.6 272.2	139.6 144.0	334.1
2005	112.3	2/2.2	144.0	10.6	104.8 105.4	331.2	48.9	129.1 134.4	/68./ 705.6	1,153.1	2/2.2	144.0	338.6
2006 2007 2008	69.2 95.7 94.6	271.0 279.4 307.1	173.6 176.2 173.4	10.5 10.1 17.4	116.0	328.6	39.0 62.8 28.3	126.7	795.6 820.4 766.8	1,135.7 1,195.6	271.0 279.4 307.1	173.6 176.2 173.4	340.7 338.8 326.2
2008	94.6	307.1	173.4	17.4	114 0	308.3	28.3	125.3	766.8	1.168.5	307.1	173.4	326.2
2009 2010	84.0 94.9	319.7 294.9	141.2 141.4	16.2	103.7 74.8	307.9	45.6 42.2	118.0 111.8	732.6	1,136.4 1,081.7	319.7	142.5 142.2	328.7 323.4
2010 2011	94.9 57.0	294.9	141.4 147.3	16.2	74.8 75.2	305.6	42.2 50.5	111.8 102.7	691.9 694.9	1,081.7	294.9	142.2 140.6	323.4 320.3
2012	42.7	272.3 271.9	147.3 134.1 128.0	17.3 16.3	75.2 73.4	300.0	50.5 63.3	110.7	732.6 691.9 694.9 697.8	1,024.2 1,012.4	271.9	149.6 136.3	320.3 317.5
2013 2014	75.0	327 8	128.0	16.3	79 6	312.0	61.2	404.4	698.4	1.101.2	327.8	131 8	330.4
2014	76.5	320.2	135.0	16.2	82.4	291.7 303.6 319.9 316.5 318.8 326.5 325.2 328.2 329.7 328.6 332.2 331.2 332.6 328.6 308.3 307.9 305.6 302.0 300.0 312.0 308.9 315.0 314.0 325.8 327.8	40.8 55.0	101.4 98.5 110.3 R 107.2 R 104.2 R 103.1 R 102.4 R 91.0 R 91.7 89.7	697.8 698.4 681.9 732.7 R 800.5 R 769.9 R 775.9 R 794.8 R 621.8 R 710.4	1,078.6	319.7 294.9 272.3 271.9 327.8 320.2 327.7	138.9	328.6 339.2 338.8 338.2
2015	58.3 53.3	327.7 324.9	145.7 150.2	14.5 16.5	92.2 99.2	315.0 314.9	55.0 112.5	110.3 R 107.2	732.7 R 800.5	1,118.7 R 1 178 7	327.7 324.9	150.1 156.3	339.2 338.8
2016 2017	53.3 61.7	324.9 350.9	150.2 144.5	16.5 16.5	99.2 104.7	314.0	112.5 86.0	R 104.2	R 769.9	R 1,182.5	350.9	156.3 150.1	338.2
2018 2019	61.2	334.8	159.4 158.4	17.8	105.1 111.1	325.8	64.8	R 103.1	R 775.9	R 1,171.9	334.8	164.6 163.3	350.7 353.5
2019	61.2 80.8 59.4	378.2 R 356.9	158.4	18.4 17.2	111.1	327.9	64.8 76.6 37.2	H 102.4	H 794.8	R 1,178.7 R 1,178.7 R 1,182.5 R 1,171.9 R 1,253.9 R 1,038.2	378.2 B 256.0	163.3	353.5
2020	59.4 36.9	R 384.8	148.1 R 150.4	17.2 19.0	70.1 90.8	258.2 282.7	37.2 77.5	R 91.0	R 710 4	1,038.2	324.9 350.9 334.8 378.2 R 356.9 R 384.8	152.9 R 152.5	278.6 305.2
2021 2022	42.2	381.9	151.7	19.0	101.6	284.0	79.4	89.7	710.4	1,132.1	381.9	R 152.5 153.9	306.6

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Washington (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		1
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 117.2	58.5	NA	NA	NA	NA	58.5	0.0	NA	NA	R 175.7	R 150.6 R 179.3 R 227.6 R 225.8 R 260.3 R 222.1 R 235.9	-0.2	R 765.4
1965 1970	0.0 28.7	R 168.2 R 237.2	66.2 66.5	NA NA	NA NA	NA NA	NA NA	66.2 66.5	0.0 0.0	NA NA	NA NA	R 234.4 R 303.7	H 179.3	-1.6 2.1	R 946.2 R 1,233.0
1971	27.7	H 244.3	67.2	NA	NA	NA	NA NA	67.2	0.0	NA NA	NA	R 311.4	R 225.8	1.0	R 1,258.0 R 1,393.4
1972	31.5	R 258.9	67.0	NA	NA	NA	NA	67.0	0.0	NA	NA	R 325.9	R 260.3	3.4	R 1,393.4
1973 1974	48.3 43.4	R 235.5 R 281.5	66.2 65.2	NA NA	NA NA	NA NA	NA NA	66.2 65.2	0.0 0.0	NA NA	NA NA	R 301.7 R 346.6	R 222.1	16.4 8.2	R 1,434.4 R 1,418.7
1975	36.4	R 285 6	64.3	NA	NA	NA	NA	64.3	0.0	NA	NA	H 349.9	R 198.9 R 223.1 R 254.9 R 273.4 R 327.5 R 352.3 R 400.6	5.9	H 1.387.5
1976	26.6	R 322.3 R 227.3	71.4	NA	NA	NA	NA	71.4	0.0	NA	NA	R 393.7	R 223.1	2.1	H 1.439.8
1977 1978	46.5 45.3	R 303.3	78.3 81.0	NA NA	NA NA	NA NA	NA NA	78.3 81.0	0.0 0.0	NA NA	NA NA	R 305.6 R 384.4	R 273 4	17.0 8.4	R 1,476.0 R 1,551.3
1979	39.3	H 271 3	77.5	NA	NA	NA	NA	77.5	0.0	NA	NA	R 348 7	R 327.5	(s)	H 1 601 5
1980	22.3	R 283.6	88.3 94.9	NA	NA	NA	ŅĄ	88.3	0.0	NA	NA	R 371.8 R 414.8	R 352.3	2.9	R 1 570 6
1981 1982	22.5 40.2	R 319.7 R 299.3	94.9 91.1	0.1 0.1	NA NA	NA NA	(s) 0.1	95.1 91.3	0.0	NA NA	NA NA	R 390.6	11 400.6 R 371 6	29.6 13.8	R 1,690.4 R 1,586.6
1983	38.1	R 201 0	104.4	0.1	NA	NA	0.3	104.8	0.0	NA	0.0	R 306 7	R 371.6 R 379.6 R 356.5 R 351.7	8.1	R 1 538 5
1984	57.6	R 284.7	110.3	0.1	NA	NA	0.3	110.7	0.0	0.0	0.0	H 395 4	R 356.5	21.9	H 1.644.6
1985	85.4 89.3	R 262.9 R 269.4	112.0	(s) 0.2	NA NA	NA NA	0.3 0.3	112.4 118.3	0.0 0.0	0.0 0.0	0.0 0.0	R 375.3 R 387.7	<sup>n</sup> 351./ R 360.1	3.1 -7.9	R 1,656.5
1986 1987	57.7	H 238.3	117.7 122.5	0.5	NA	NA	0.5	123.3	0.0	0.0	0.0	H 361.5	R 360.1 R 395.9	3.9	R 1,690.1 R 1,752.2
1988	63.6	R 233.8	127.4	0.5	NA	NA	0.4	128.2	0.0	0.0	0.0	R 362.0	H 481 3	1.9	H 1.893.8
1989 1990	64.7 60.8	R 244.1 R 298.4	108.2	0.6 0.7	NA NA	NA NA	0.3 0.3	109.2	0.1 0.1	0.4 0.4	0.0 0.0	R 353.7 R 393.3	n 503.9 R 1.5	-2.7 0.8	R 1,945.6
1991	44.3	H 304 8	93.4 73.9	0.8	NA	NA	0.3	94.4 75.1	0.1	0.4	0.0	H 380.4	R 503.9 R -1.5 R -7.7	8.9	R 1,469.5 R 1,455.8
1992	59.6	R 233.1	95.4	3.9	NA	NA	0.3	99.6	0.1	0.4	0.0	R 333 2	H 81 2	21.3	H 1 629 6
1993 1994	74.9 70.4	R 229.7 R 223.7	96.5 96.3	6.7 7.8	NA NA	NA NA	0.3 0.3	103.5 104.4	0.1 0.2	0.4 0.4	0.0 0.0	R 333.7 R 328.7	R 139.2 R 66.0	2.4 9.5	R 1,636.7 R 1,639.5
1995	72.9	R 281 5	90.1	2.6	NA	NA NA	0.3	93.0	0.2	0.4	0.0	H 375.0	H -10.2	-2.6	R 1.584.6
1996	58.7	R 226 1	89.7	1.1	NA	NA	0.1	90.9	0.2	0.4	0.0	R 427 6	R -1169	15.7	H 1 580 3
1997 1998	65.5 72.6	R 355.4 R 272.3	94.2 87.1	2.2 2.9	NA NA	NA NA	0.1 0.1	96.5 90.2	0.2 0.3	0.4 0.3	0.0 0.0	R 452.5 R 363.1	R -113.6 _R 13.9	12.4 8.4	R 1,588.0 R 1,687.2
1999	63.6	R 330 9	89.1	2.5	NA NA	NA NA	0.1	91.6	0.3	0.3	0.0	R 423.2	R -37.9 R 11.6	6.2	R 1,702.6 R 1,702.9
2000	89.7	H 272 Q	89.1 89.2	2.5 2.8	NA	NA	0.1	92.1	0.3 0.3	0.3	0.0	R 423.2 R 366.6	R 11.6	-3.9	R 1,702.9
2001 2002	86.2 94.5	R 186.8 R 266.7	92.7 87.6	2.0 5.9	(s) 0.1	NA NA	0.1 0.1	94.8 93.6	0.3 0.4	0.3 0.2	0.0 R 1.4	R 282.2 R 362.4	R 106.6 R -90.5 R -63.3 R -44.1	-17.3 -4.1	R 1,647.9 R 1,439.9
2002	79.4	H 244 R	95.7	5.6		NA NA	0.1	101.4	0.4	0.2	1.4 R 2 1	R 349 0	R -63 3	-4.1 -6.7	R 1,439.9
2004	93.7	R 244 2	92.6	1.9	(s) 0.1	NA	(s)	94.6	0.6	0.2	R 2.1 R 2.5	R 349.0 R 342.0	R -44.1	-16.5	R 1,455.6 R 1,506.7
2005	86.0 97.3	R 245.9 R 279.8	81.3	7.4 8.1	0.3 0.8	NA NA	(s) 0.0	88.9 112.7	0.6 0.7	0.1	H 1.7	R 337.3 R 396.8	H -34.3	-10.3 -29.5	R 1,531.9
2006 2007	85.1	Rasan	103.7 79.1	10.2	1.1	NA NA	(s)	90.4	0.7	0.1 0.1	R 8.3	R 368.5	R -34.3 R -26.8 R -56.4	-29.5 -11.1	R 1,573.5 R 1,581.7
2008	96.9	H 264 9	77.3	17.9	1.0	NA	(s)	96.1	0.8	0.1	R 12.5	R 374 4	R -48.5 R -3.5 R 12.8	-24.8	H 1.566.5
2009 2010	69.4 96.6	R 248.8 R 233.0	84.3 107.6	20.7 17.8	1.0 0.8	NA NA	(s)	106.1 126.2	0.9 1.0	0.1 R 0.1	H 12.2	R 368.1 R 376.5	H -3.5	-21.1 -23.7	R 1,549.4 R 1,543.9
2010	50.3	R 313.3	104.4	18.4	2.8	0.0	(s) 0.1	125.6	1.3	R 0.1	R 21 4	R 461.7	R -34 1	-23.7 -23.1	H 1 //70 N
2012	97.8	H 20E 2	101.3	17.5	2.5 2.5	0.0	(s) 0.1	121.4	1.1	Bna	R 22.5	R 450.5 R 420.8	R -34.1 R -52.5 R -38.6	-21.1	R 1,487.2 R 1,550.3
2013	88.4 99.3	R 266.7 R 271.1	108.0 108.6	18.4 19.7	2.5 2.6	0.0 0.0	0.1 0.1	128.9	1.1 1.1	R 0.2 R 0.2	H 23.9	H 420.8 R 428.3	H -38.6 R -51.5	-21.6 -25.7	H 1,550.3
2014 2015	99.3 85.3	R 250 5	113.3	19.7 24.2	2.6	0.0	0.1	131.0 R 140.3	1.1	ноз	R 24.8	R 416 4	H -47 N	-25.7 -11.3	R 1,529.0 R 1,562.1
2016	100.7 85.0	R 267 3	122.8 117.7	23.9	2.9 2.8	0.0 0.0	0.1	149.7 R 144.8	1.1	R n 4	R 1.7 R 3.7 R 8.3 R 12.5 R 16.2 R 21.4 R 22.5 R 23.9 R 24.8 R 24.1 R 27.4 R 27.0 R 22.8 R 31.6	R 446.0 R 450.5	R -89.6 R -81.3	-2.7	R 1,633.1 R 1,633.0
2017	85.0	R 280.4 R 276.0	117.7 116.7	24.2	2.8	0.0	0.1	H 144.8	1.1	R 0.5 R 0.6	H 23.6	H 450.5 R 449.6	H -81.3 P -84.1	-3.6	H 1,633.0 R 1.625.1
2018 2019	101.5 92.6	R 225.3	118 /	25.0 25.6	3.1 3.0	0.0 0.0	0.1 0.1	144.9 147.2	1.1 1.1	B 1 0	R 22 8	R 397.3	H -30 0	-13.7 -13.2	R 1 700 6
2020	98.5	H 260.7	R 100.6 R 101.9	20.3	2.8	0.0	0.1	147.2 R 123.9	1.1	H 1.1	R 31.6	R 418.5	R -143.3 R -103.9	16.9	H 1,428.8
2021	R 88.8	H 243.5	R 101.9 100.8	22.4	R 2.8	0.0	0.1	R 127.3 126.4	1.1	H 1.4	H 31.7	R 405.0	R -103.9 -117.7	13.4	<sup>n</sup> 1,535.3
2022	102.7	269.3	100.8	22.6	2.9	0.0	0.1	120.4	1.1	1.8	27.5	426.1	-117.7	12.5	1,571.4

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Washington

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL °	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	housand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	608	65	18,121	548	4,502	23,076	9,285	7,709	63,241	195					25,951			_
1970	245	150	18,200	1,659	10,637	36,068	10,381	13,212	90,157	135					47,609			_
1980	493	128	18,440	1,487	12,036	42,653	17,076	13,446	105,138	129					69,658			-
1990 2000	295 146	163 212	20,125 24,339	2,292 6,456	22,343 24,726	53,464 63,053	16,271 7,551	21,122 24,916	135,617 151,041	274 102					91,046 96,511			_
2005	71	199	24,732	2,779	18,480	65,216	7,785	21,333	140,325	52					83,425			_
2006	94	205	29,878	2,773	18,588	65,712	6,207	22,249	145,407	64					85,033			-
2007	137	215	30,444	2,667	20,451	65,893	9,983	20,985	150,423	48					85,742			-
2008	148	224	29,951	4,696	20,110	63,891	4,509	20,792	143,948	48					87,333			-
2009 2010	170 141	219 206	24,587 24.587	4,337 4,206	18,293 13,184	64,569 63.817	7,253 6,715	19,670 18,565	138,710 131.073	47 55					90,210 90,380			
2010	97	206	25,888	4,206	13,184	63,269	8,029	17,045	131,073	3					90,380			
2012	109	221	23,610	4.254	12,943	62,725	10,069	18,419	132.020	1					92,336			
2013	106	231	22,849	4,246	14,037	65,300	9,731	16,794	132,958	0					92,883			
2014	141	222	24,078	4,211	14,536	64,960	6,491	16,286	130,562	0					92,141			
2015	102	211	26,031	3,765	16,262	67,072	8,741	18,313	140,184	0					90,116			
2016	100 76	220 244	27,123	4,295	17,503	67,014	17,901	R 17,306 R 16,753	R 151,142 R 146,164	0					88,885			
2017 2018	76 74	244	26,042 28,564	4,289 4,624	18,470 18,527	66,926 69,395	13,684 10,312	R 16,588	R 148,011	0					91,948 90,006			
2019	79	242	28,341	4,798	19,598	69,974	12,181	R 16,485	R 151,377	0					91,053			
2020	82	R 234	26.537	4,475	12,360	55,140	5,918	R 14,587	R 119,016	0					86,706			
2021	79	R 242	R 26,442	4,938	16,021	60,428	12,319	<sup>R</sup> 14,614	R 134,763	0					88,199			
2022	78	254	26,644	4,958	17,911	60,722	12,624	14,291	137,150	0					90,897			
									Trillion	Btu								
1960	15.2	67.2	105.6	2.1	24.4	121.2	58.4	45.1	356.7	R <sub>0.7</sub>	58.5	NA	NA	NA	88.5	R 586.9	R 178.5	R 765.4
1970	5.9	158.2	106.0	6.3	59.3	189.5	65.3	80.3	506.7	R <sub>0.5</sub>	66.5			NA	162.4	_ <sup>R</sup> 900.2	R 332.7	R 1,233.0
1980	10.8	134.5	107.4	5.5	67.5	224.1	107.4	81.5	593.3	R 0.4	88.3			NA	237.7	R 1,064.9	R 505.6	R 1,570.0
1990	6.6	167.4 221.3	117.2	8.3	126.0 140.2	280.8 327.9	102.3	128.3	763.0 833.2	R <sub>0.9</sub> R <sub>0.3</sub>	89.7 79.4			0.4	310.6 329.3	R 1,339.6 R 1,467.6	R 129.9 R 235.3	R 1,469.
2000 2005	3.3 1.5	204.8	141.6 143.9	23.1 10.6	104.8	327.9	47.5 48.9	152.9 129.1	775.9	R 0.2	79.4		0.3	0.3	329.3 284.6	R 1,338.2	R 193.7	R 1,531.
2006	2.0	210.7	173.4	10.5	105.4	340.7	39.0	134.4	803.4	R 0.2	92.9			0.1	290.1	R 1,401.0	R 172.5	R 1,573.
2007	3.2	220.8	176.1	10.1	116.0	338.8	62.8	126.7	830.5	R 0.2	67.8		0.7	0.1	292.6	R 1,416.9	R 164.7	R 1,581.
2008	3.0	230.3	173.1	17.4	114.0	326.2	28.3	125.3	784.4	R <sub>0.2</sub>	69.6		0.8	0.1	298.0	R 1,387.3	R 179.2	R 1,566.
2009	3.5	225.7	142.0	16.2	103.7	328.7	45.6	118.0	754.2	R 0.2	76.6		0.9	_ 0.1	307.8	R 1,369.0	R 180.6	R 1,549.
2010	2.7	212.9	142.0	16.2	74.8	323.4	42.2	111.8	710.3	R <sub>0.2</sub>	97.3		1.0	R 0.1 R 0.1	308.4	R 1,333.0	R 210.9 R 112.8	R 1,543.9 R 1,478.9
2011 2012	1.8 2.1	231.9 227.7	149.4 136.2	17.3 16.3	75.2 73.4	320.3 317.5	50.5 63.3	102.7 110.7	715.4 717.4	(s) (s)	95.3 95.0		1.3 1.1	R 0.2	319.8 315.1	1,365.7 R 1,358.7	R 128.3	R 1,486.
2012	2.0	238.3	131.7	16.3	79.6	330.4	61.2	101.4	720.6	0.0	100.3		1.1	R 0.2	316.9	R 1,379.5	R 172.2	R 1,551.
2014	2.7	232.0	138.8	16.2	82.4	328.6	40.8	98.5	705.3	0.0	100.8		1.1	R <sub>0.2</sub>	314.4	R 1.356.7	R 173.6	R 1,530.
2015	1.9	224.2	150.0	14.5	92.2	339.2	55.0	_ 110.3	_ 761.1	0.0	105.0		1.1	R <sub>0.3</sub>	307.5	R 1,401.2	R 162.4	R 1,563.
2016	1.9	237.0	156.1	16.5	99.2	338.8	112.5	R 107.2	R 830.4	0.0	114.3		1.1	R 0.4	303.3	R 1,488.5	R 147.9	R 1,636.
2017	1.4	263.8	149.9	16.5	104.7	338.2	86.0	R 104.2	R 799.5	0.0	R 109.4	0.1	1.1	R <sub>0.5</sub> R <sub>0.6</sub>	313.7	R 1,489.7	R 146.2	R 1,635.
2018 2019	1.4 1.5	251.5 263.0	164.5 163.2	17.8 18.4	105.1 111.1	350.7 353.5	64.8 76.6	R 103.1 R 102.4	R 806.0 R 825.3	0.0	R 108.9 112.3		1.1 1.1	R 0.8	307.1 310.7	R 1,476.8 R 1,514.8	<sup>R</sup> 150.5 <sup>R</sup> 187.7	R 1,627. R 1,702.
2019	1.5	R 254.2	152.7	17.2	70.1	353.5 278.6	37.2	R 91.0	R 646.8	0.0	R 94.9		1.1	R 1.0	295.8	R 1,295.5	R 135.2	R 1,430.
2021	1.5	R 263.0	R 152.4	19.0	90.8	305.2	77.5	R 91.7	R 736.5	0.0	R 95.7		1.1	R 1.2	300.9	R 1,400.1	R 136.2	R 1,536.
2022	1.5	277.1	153.6	19.0	101.6	306.6	79.4	89.7	749.9	0.0	94.7		1.1	1.5	310.1	1,436.1	136.4	1,572.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Washington

1960     106     8     7,303     322     0     7,625        8,755        1965     83     17     6,495     830     9     7,335        11,015        1970     19     32     7,035     1,063     115     8,214         15,355        1975     6     34     4,806     375     203     5,384        19,209        1980     34     30     3,422     581     65     4,068        24,445        1985     47     33     3,010     513     86     3,609        -2,7933        1990     13     40     2,675     610     49     3,334        28,809        1995     10     53     2,003     1,149     86     3,238        30,147        2000     2     72     1,737     1,922     65     3,723         33,212       2005     0					-								
Year         short tons         cubic feet         Thousand barrels         Wood d         Geothermal e         Solar e,f         kilowatthours         End use           1960         106         8         7,303         322         0         7,625            8,755            1965         83         17         6,495         830         9         7,335             11,015            1975         6         34         4,806         375         203         5,384            19,209            1980         34         30         3,422         581         65         4,068             19,209            1985         47         33         3,010         513         86         3,609            24,445          1990         13         40         2,675         610         49         3,334             28,809          1995         10         53         2,003         1,149	energy losses i Total e,h		Electricity <sup>9</sup>			_	Total	Kerosene	HGL <sup>©</sup>			Coal <sup>a</sup>	
1965     83     17     6,495     830     9     7,335        11,015        1970     19     32     7,035     1,063     115     8,214        15,355        1975     6     34     4,806     375     203     5,384         19,209        1980     34     30     3,422     581     65     4,068         24,445        1985     47     33     3,010     513     86     3,609        27,933        1990     13     40     2,675     610     49     3,334        28,809        1995     10     53     2,003     1,149     86     3,238        30,147        2000     2     72     1,737     1,922     65     3,723        33,036        2005     0     74     1,250     1,902     54     3,207         33,449       2006		End use e,h		Solar <sup>e,f</sup>	Geothermal <sup>e</sup>	Wood d		nd barrels	Thousa				Year
1965     83     17     6,495     830     9     7,335        11,015        1970     19     32     7,035     1,063     115     8,214        15,355        1975     6     34     4,806     375     203     5,384         19,209        1980     34     30     3,422     581     65     4,068         24,445        1985     47     33     3,010     513     86     3,609        27,933        1990     13     40     2,675     610     49     3,334        28,809        1995     10     53     2,003     1,149     86     3,238        30,147        2000     2     72     1,737     1,922     65     3,723        33,036        2005     0     74     1,250     1,902     54     3,207         33,449       2006			8,755				7,625		322	7,303	8	106	1960
1975     6     34     4,806     375     203     5,384        19,209        1980     34     30     3,422     581     65     4,068        24,445        1985     47     33     3,010     513     86     3,609        -2     27,933        1990     13     40     2,675     610     49     3,334        28,809        1995     10     53     2,003     1,149     86     3,238        30,147        2000     2     72     1,737     1,922     65     3,723        33,036        2005     0     74     1,250     1,902     54     3,207        33,212        2006     (s)     75     1,229     1,773     31     3,034         34,439        2007     (s)     80     1,102     1,690     13     2,805         35,389 <td>= == == = == ==</td> <td></td> <td>11,015</td> <td></td> <td></td> <td></td> <td>7,335</td> <td></td> <td>830</td> <td>6.495</td> <td>17</td> <td>83</td> <td>1965</td>	= == == = == ==		11,015				7,335		830	6.495	17	83	1965
1980     34     30     3,422     581     65     4,068        24,445        1985     47     33     3,010     513     86     3,609         27,933        1990     13     40     2,675     610     49     3,334         28,809        1995     10     53     2,003     1,149     86     3,238         30,147        2000     2     72     1,737     1,922     65     3,723         33,036        2005     0     74     1,250     1,902     54     3,207         33,212        2006     (s)     75     1,229     1,773     31     3,034         34,499        2007     (s)     80     1,102     1,690     13     2,805              35,389	= == == = == ==		15,355 19,209				8,214 5,384	115 203	1,063 375	7,035 4,806	32 34		1970 1975
1990     13     40     2,675     610     49     3,334        28,809        1995     10     53     2,003     1,149     86     3,238         30,147        2000     2     72     1,737     1,922     65     3,723        33,036        2005     0     74     1,250     1,902     54     3,207         33,212        2006     (s)     75     1,229     1,773     31     3,034         34,439        2007     (s)     80     1,102     1,690     13     2,805         35,389			24,445				4,068	65	581	3,422	30	34	1980
1995     10     53     2,003     1,149     86     3,238        30,147        2000     2     72     1,737     1,922     65     3,723         33,036        2005     0     74     1,250     1,902     54     3,207         33,212        2006     (s)     75     1,229     1,773     31     3,034         34,499        2007     (s)     80     1,102     1,690     13     2,805          35,389			27,933				3,609			3,010	33		1985
2000 2 72 1,737 1,922 65 3,723 33,036 2005 0 74 1,250 1,902 54 3,207 33,212 2006 (s) 75 1,229 1,773 31 3,034 34,439 2007 (s) 80 1,102 1,690 13 2,805 35,389 35,389			28,809 30 147				3,334 3,238	49 86	610 1 149	2,675 2,003	40 53	13 10	1990 1995
2005			33.036				3.723	65	1,922	1.737	72		2000
2007 (s) 80 1,102 1,690 13 2,805 35,389			33,212				3,207	54	1,902	1,250	74	, 0	2005
2008 0 85 1.017 2.31 11 3.259 36.336 36.336			34,439				3,034	31	1,7/3	1,229	/5 80		2006
			36,336				3,259	11	2,231	1,017	85	0	2008
2009 0 84 972 2,489 18 3,479 36,768 -			36,768				3,479	18	2,489	972	84	0	2009
			34,907 36,376				3,321		2,353	946	/6 85	0	
2012 0 80 632 1.806 5 2.443 35.511 -			35,511					5		632	80	0	
2013 0 83 607 1,820 4 2,431 35,983 -			35,983				2,431	4	1,820	607	83	0	2013
2011 0 10 101 101 0 20100			35,083				2,414	6	1,754	654	79 72	0	2014
2016 0 76 614 1,899 7 2,520 34,072 34,212			34,072					7	1,527	614	76	0	
2017 0 91 834 2,290 4 3,129 37,283			37,283				3,129	4	2,290	834	91	ő	2017
			35,339				2,864	4	2,254	607	84		2018
	_		36,512 36,859					6 4	2,836 2,394	629 608	90 87	0	
2021 0 90 711 2.437 5 3.152 38.021 -							3,152	5	2.437	711	90	ŏ	2021
2022 0 94 705 2,119 4 2,827 39,776			39,776				2,827	4	2,119	705	94	0	2022
Trillion Btu						Trillion Btu							
1960 2.4 8.3 42.5 1.2 0.0 43.8 17.8 NA NA 29.9 100 1965 1.9 18.7 37.8 3.2 0.1 41.1 12.5 NA NA 37.6 11	1 R 60.2 R 162.4 7 R 73.9 R 185.7 8 R 107.3 R 249.1	102.1	29.9		NA	17.8	43.8	0.0	1.2	42.5	8.3	2.4	1960
1965 1.9 18.7 37.8 3.2 0.1 41.1 12.5 NA NA 37.6 11 <sup>-</sup> 1970 0.4 33.7 41.0 4.1 0.7 45.7 9.6 NA NA 52.4 14 <sup>-</sup>	7 R 73.9 R 185.7 8 R 107.3 R 249.1	111.7 141.8	37.6			12.5			3.2	37.8	18.7		1965
1975 0.1 35.8 28.0 1.4 1.1 30.6 10.3 NA NA 65.5 142	3 1338 12761	142.3	65.5			10.3	30.6			28.0	35.8		1975
1980 0.8 31.3 19.9 2.2 0.4 22.5 9.7 NA NA 83.4 147	7 <sup>H</sup> 177.4 H 325.2	147.7	83.4	NA		9.7	22.5	0.4	2.2	19.9	31.3	0.8	1980
1985 1.1 34.3 17.5 2.0 0.5 20.0 17.0 NA NA 95.3 167 1990 0.3 41.6 15.6 2.3 0.3 18.2 13.3 (s) 0.4 98.3 172	7 R 193.7 R 361.4 0 R 41.1 R 213.1	167.7 172.0	95.3			17.0	20.0	0.5	2.0		34.3	1.1	1985
1990 0.3 41.6 15.6 2.3 0.3 18.2 13.3 (s) 0.4 98.3 172 1995 0.2 55.0 11.7 4.4 0.5 16.6 17.1 (s) 0.4 102.9 192	1 R 51.8 R 243.9	192.1	96.3 102.9			17.1	16.2	0.3 0.5		11.7	55.0	0.3	1990
2000 0.1 74.8 10.1 7.4 0.4 17.9 14.7 (s) 0.3 112.7 220	5 R 80.5 R 301.0	220.5	112.7	0.3		14.7	17.9	0.4	7.4	10.1	74.8	0.1	2000
2005 0.0 75.8 7.3 7.3 0.3 14.9 11.3 (s) 0.1 113.3 21	5 R 77.1 R 292.6 6 R 69.9 R 289.5 2 R 68.0 R 295.1	215.5			(s)	11.3		0.3	7.3		75.8		2005
2006 (s) 77.8 7.1 6.8 0.2 14.1 10.1 0.1 0.1 117.5 219 2007 (s) 82.2 6.4 6.5 0.1 12.9 11.1 0.1 0.1 120.7 227	2 R 68.0 R 295.1	219.6 227.2	117.5	0.1	0.1		14.1	0.2	6.8		77.8 82.2		2006
2008 Ô.Ó 87.1 5.9 8.6 0.1 14.5 12.4 0.1 0.1 124.0 236	9 H 7/1 G H 3/19/7	238.2	124.0	0.1	0.1	12.4	14.5	0.1	8.6	5.9	87.1	Ò.Ó	2008
2009	2 R 73.6 R 318.8 8 R 81.5 R 312.3	245.2	125.5			17.5	15.3			5.6			2009
2010 0.0 78.0 5.5 9.0 0.1 14.6 18.8 0.1 0.1 119.1 230 2011 0.0 87.9 5.0 9.1 0.1 14.2 18.3 0.9 R0.1 124.1 R248	R 81.5 R 312.3 4 R 43.8 R 289.2 8 R 49.3 R 279.1	230.8 R 245.4	119.1	0.1 R 0.1		18.8 18.3				5.5 5.0	/8.0 87.9		
2012 0.0 82.2 3.6 6.9 (s) 10.6 15.3 0.4 0.2 121.2 229	8 R 43.8 R 289.2 R 279.1	229.8	121.2	0.2	0.4	15.3	10.6		6.9	3.6	82.2	0.0	2012
2013 0.0 86.1 3.5 7.0 (s) 10.5 19.9 0.4 80.2 122.8 8236	8 R 66.7 R 306.6 2 R 66.1 R 299.3	R 239.8 R 233.2		R 0.2						3.5			
2014 0.0 82.2 3.8 6.7 (s) 10.5 20.1 0.4 R <sub>0.2</sub> 119.7 R <sub>23</sub> 2015 0.0 76.5 3.5 5.9 (s) 9.4 23.0 0.4 R <sub>0.3</sub> 116.3 R <sub>22</sub>	2 R 66.1 R 299.3 8 R 61.4 R 287.2	n 233.2 R 225 g		™ 0.2 R o a		20.1		(S)	6.7 5.0	3.8	82.2 76.5		
2016 0.0 82.3 3.5 7.3 (s) 10.9 25.2 0.4 80.4 116.7 23.0 2017 0.0 98.3 4.8 8.8 (s) 13.6 826.0 0.4 80.5 127.2 8266	8 R 61.4 R 287.2 8 R 56.9 R 292.7 0 R 59.3 R 325.2	R 225.8 R 235.8 R 266.0	116.7	Rna		_ 25.2	10.9	(s)	7.3	3.5	82.3		
2017 0.0 98.3 4.8 8.8 (s) 13.6 P.26.0 0.4 P.0.5 127.2 P.26	0 R 59.3 R 325.2	R 266.0	127.2	H 0.5	0.4	R 26.0	13.6	(s)	8.8	4.8	98.3	0.0	2017
2018 0.0 90.8 3.5 8.7 (s) 12.2 27.9 0.4 80.6 120.6 8252 2019 0.0 97.6 3.6 10.9 (s) 14.5 31.7 0.4 80.7 124.6 8268	3 R 59.1 R 311.4 5 R 75.3 R 344.8	R 252.3 R 269.5		n 0.6 R 0.7		27.9		(s)		3.5	90.8		2018
2019 0.0 97.6 3.6 10.9 (s) 14.5 31.7 0.4 R0.7 124.6 R265 2020 0.0 94.6 3.5 9.2 (s) 12.7 R19.8 0.4 R0.9 125.8 R25- 2021 0.0 97.2 4.1 9.4 (s) 13.5 R19.1 0.4 R1.0 129.7 R266	0 R 57 5 R 311 5	R 254 0	125.8	R 0.9		R 19.8	14.5	(S)	9.2	3.5	94.6		2020
2021 0.0 97.2 4.1 9.4 (s) 13.5 H19.1 0.4 H1.0 129.7 H260	9 587 53197	R 260.9	129.7	R 1.0	0.4	H 19 1	13.5	(s)	9.4	4.1	97.2	0.0	2021
2022 0.0 102.3 4.1 8.1 (s) 12.2 23.1 0.4 1.3 135.7 275	0 59.7 334.6	275.0	135.7	1.3	0.4	23.1	12.2	(s)	8.1	4.1	102.3	0.0	2022

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Washington

						Pet	roleum				Biomass						_
		Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total d	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
	/ear	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
19	60	74	6	2,308	86	0	222 255	441	3,057 2,944	NA			NA	3,220			
19	65 70	63 15	11 18	2,053 2,224	222 284	1 15	255 304	412 481	2,944 3,308	NA NA			NA NA	4,380 6,723			
19	75	14	32	1,519	100	26	374	355	2,374	NA			NA	10,377			
19	80 85	127 168	31 35	1,073 4,154	155 137	18 206	478 357	426 748	2,150 5,602	NA NA			NA NA	13,845 18,965			
19	90	53	39	1,865	163	14	281	53	2,376	85			(s)	21,510			
19	95 00	68 18	43 50	1,264 902	307 514	14 12	59 275	110 27	1,754 1,729	83 70			(s) (s)	23,912 28,047			
20	05	0	50	1,038	401	48	137	0	1,624	49			(s)	28,100			
	06 07	(s) (s)	51 54	1,018 783	471 474	22 10	137 168	1 (s)	1,649 1,436	62 45			(s) (s)	28,580 29,599			
20	08	`Ó	56	1,339	768	7	162	0	2,275	46			(s)	29,878			
	09 10	0	56 51	1,018 1,526	678 722	6 5	139 97	(s)	1,840 2,350	45 53			(s) 2	30,069			
20	11	0	56	1,172	682	3	103	(s)	1,960	0			3	28,833 29,409			
20 20	12	0	53 56	1,172 1,175	1,068 922	1	143 166	(s) (s)	2,385 2,265	0			5	29,240 29,659			
20		0	54	1,175	922 975	3	142	(s) 0	2,265 2,417	0			6 8	29,039			
20		0	50	1,296	728	1	1,592	0	3,617	0			10	29,267			
20	16 17	0	52 60	1,305 738	864 1,119	2	1,824 1,560	0	3,997 3,418	0			13 19	28,989 29,800			
20	18	0	57	1,375	1.297	2	1,592	0	4,265	0			24	29.396			
20 20		0	61 56	746 1,341	1,236 1,264	4	1,596 1,605	0	3,581 4,213	0			30 36	29,270 27,307			
20	21	Ö	58	1,183	1,372	2	1,614	Ö	4,171	Ö			44	28,637			
20	22	0	63	1,157	1,269	2	1,692	0	4,121	0 lion Btu			61	29,780			
_	00	4.7	0.7	40.4	0.0	0.0	4.0	0.0			0.0	NA	A1A	44.0	07.4	B oo o	B.co.o
19 19	65	1.7 1.4	6.7 11.5	13.4 12.0	0.3 0.9	0.0 (s)	1.2 1.3	2.8 2.6	17.7 16.8	NA NA	0.3 0.2	NA NA	NA NA	11.0 14.9	37.4 44.8	R 22.2 R 29.4 R 47.0	R 59.6 R 74.2
19	70	0.3	19.5	13.0	1.1	0.1	1.6	3.0	18.8	NA	0.2	NA	NA	22.9	61.7	R 47.0	n 108 7
19	75 80	0.3 2.9	33.3 32.4	8.8 6.2	0.4 0.6	0.1 0.1	2.0 2.5	2.2 2.7	13.6 12.1	NA NA	0.2 0.2	NA NA	NA NA	35.4 47.2	82.8 94.9	R 72.3 R 100.5	R 155.1 R 195.4
19	85	3.9	36.9	24.2	0.5	1.2	1.9	4.7	32.5	NA	0.4	NA	ŅĄ	64.7	138.4	R 131.5 R 30.7	H 269.9
19 19	90 95	1.1 1.5	39.8 44.4	10.9 7.4	0.6 1.2	0.1 0.1	1.5 0.3	0.3 0.7	13.4 9.6	R 0.3 R 0.3	1.5 2.3	0.1 0.2	(s) (s)	73.4 81.6	R 129.5 R 139.9	H 41 1	R 160.2 R 180.9
20	00	0.5	52.6	5.2	2.0	0.1	1.4	0.2	8.9	R 0.2	2.5 1.8	0.3	(s)	95.7	<sup>n</sup> 160.7	n 68 /	n 229.0
	05 06	0.0 (s)	51.2 52.8	6.0 5.9	1.5 1.8	0.3 0.1	0.7 0.7	0.0	8.6 8.6	R 0.2 R 0.2	1.8 1.7	0.6 0.6	(s) (s)	95.9 97.5	R 158.2 R 161.4	R 65.2 R 58.0	R 223.5 R 219.4
20	07	(s)	55.1 57.9	4.5	1.8	0.1	0.9	(s) (s) 0.0	7.3	R 0.2 R 0.2	1.8	0.7	(s)	101.0	R 165.9 R 174.2	R 56.9 R 61.3	R 222 8
20	08 09	0.0 0.0	57.9 57.4	7.7 5.9	2.9 2.6	(s) (s)	0.8 0.7	0.0 (s)	11.6 9.2	H 0.2 H 0.2	1.9 2.5	0.7 0.8	(s) (s)	101.9 102.6	H 174.2 R 172.6	н 61.3 R 60.2	R 235.5 R 232.8
20	10	0.0	53.0	8.8	2.8	(s)	0.7	0.0	12.1	R 0.2	2.4	0.8	(s)	98.4	R 167.0	R 67.3	R 234.3
20		0.0	58.1	6.8	2.6	(s)	0.5	(s)	9.9	0.0	2.4	0.4	(s)	100.3	171.2	R 35.4	R 206.6
20 20	12 13	0.0 0.0	55.0 57.7	6.8 6.8	4.1 3.5	(s) (s)	0.7 0.8	(s) (s) (s)	11.6 11.2	0.0 0.0	2.1 2.5	0.8 0.8	R (S)	99.8 101.2	169.2 173.3	R 40.6 R 55.0	R 209.8 R 228.3
20	14	0.0	56.9	7.5	3.5 3.7	(s)	0.7	0.0	12.0	0.0	2.7	0.8	R (e)	99.1	171 /	R 55.0 R 54.7	H 226 1
20 20	15 16	0.0 0.0	53.1 55.7	7.5 7.5	2.8 3.3	(s) (s)	8.0 9.2	0.0 0.0	18.3 20.1	0.0 0.0	3.5 4.6	0.8 0.8	R (s) R (s)	99.9 98.9	R 175.6 R 180.1	R 52.8 R 48.2	R 228.4 R 228.4
20	17	0.0	64.9	4.2	4.3	(S) (S)	7.9	0.0	16.4	0.0	4.9	0.8	R 0.1	101.7	R 188 7	R 47 4	R 236 1
20	18	0.0	62.0	7.9	5.0	(s)	8.0	0.0	21.0	0.0	4.3	0.8	R 0.1 R 0.1	100.3	n 188 4	R 49.2 R 60.3	R 237.5 R 249.1
20	19 20	0.0 0.0	66.2 60.2	4.3 7.7	4.7 4.9	(s) (s)	8.1 8.1	0.0 0.0	17.1 20.7	0.0 0.0	4.7 4.7	0.8 0.8	H 0.1	99.9 93.2	R 188.8 R 179.7	H 42 6	H 222.3
20	21	0.0	62.5	6.8	5.3	(s)	8.1	0.0	R 20.3	0.0	4.5	0.8	R 0.2	97.7	H 185.9	R 44.2	H 230.1
20	22	0.0	68.7	6.7	4.9	(s)	8.5	0.0	20.1	0.0	4.4	0.8	0.2	101.6	195.8	44.7	240.5

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately. <sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Washington

					Petrol	eum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other d	Total	Hydro- electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet	1		Thousand	l barrels			Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		llion Wh	End use f,k	system energy losses <sup> </sup>	Total f,k
1960	420	50	5.937	134	802	7.137	5,134	19,144	195				NA	13,975			
1960 1965	420 341	50 79	5,937 5,546	134 155	802 765	7,137 7,281	9,804	23.551	190				NA	18,703			
1970	210	93	4,986	274	551	7,874	12,331	26,015	135				NA				
1975 1980	463 332	92 64	4,025 4,350	250 658	438 278	5,924 6,538	15,456 12,506	26,094 24,331	181 129				NA NA				
1985	208 229	63	2,689	1,487	692	5,167	14,164 20,233	24,199	129				NA NA	29,431			
1990	229	78	3,976	1,228	658	1,989	20,233	28,084	189				(s)	40,712			
1995	223 126	110	3,724 2,953	1,278 4,003	555 533	644	21,708 23,985	27,910	197				(s)	34,276 35,410			
2000 2005	71	84 67	2,953	237	1,261	888 12	20,528	32,362 24,938	32				(s)	35,410 22,112			
2006	94	71	3,707	284	1,311	7	21,582	26,891	2				(s)	22,013			
2007	136	74	3,970	336	969	3	20,342	25,620	3				(s)	20,753			
2008	148	76	4,951	1,282	876	. 7	20,230	27,347	2				(s)	21,117			
2009	170	71 71	2,836	941	848	265	19,164	24,055	2				(s)	23,371			
2010 2011	141 97	71	2,991 2,927	1,111 1,433	1,114 1,131	249 262	17,864	23,329 22.098	3				(s)	26,633 27,933			
2012	109	78 78	2,553	1,361	1,105	176	16,347 17,730	22,925	1				(s)	27,579			
2013	106	81	2,608	1,481	1,139	154	16,092	21,474	Ó				(s)	27,235			
2014	141	79	2,489	1,456	1,019	0	15,660	20,625	0				(s)	28,013			
2015 2016	102 100	77 79	3,114 3,254	1,476 1,478	1,000 985	0	17,600 R 16,606	23,190 R 22,322	0				(s) (s)	26,772 25,678			
2016	76	79 81	3,254 3,109	818	985 997	10	R 16,142	R 21,075	0				(S)	25,678 24,859			
2018	74	77	3,909	1,022	1,014	5	H 15.981	R 21,932	ŏ				(s)	25,263			
2019	79	78	4,336	603	1,009	0	H 15.850	R 21,798	Ó				`1	25,172			
2020	82	78	4,485	719	1,017	ō	R 14,100	R 20,320	0				1	22,442			
2021 2022	79 78	81 80	3,507 3,545	931 1,473	999 1,039	5 5	R 13,738 13,391	R 19,180 19,453	0				1	21,436 21,227			
LULL	70		0,040	1,470	1,000		10,001	10,400	Trillion Bt					21,227			
1960	10.9	51.8	04.0	0.5	4.2	44.9	31.6	115.8	P 0.7		NA	NA	NA	47.7	R 267.3	R 96.1	R 363.4
1960	8.8	85.3	34.6 32.3	0.5 0.6	4.2	44.9 45.8	59.9	142.6	R 0.6	53.5	NA NA	NA NA	NA NA	63.8	R 354.6	R 125.5	R 480.2
1970	5.1	98.3	29.0	1.0	2.9	49.5	75.4	157.8	H05	56.8	NA	NA.	NA NA		R 405 5	H 178 4	R 583.9
1975	10.9	96.0	23.4	0.9	2.3	37.2	94.6	158.4	R 0.6	53.9	NA	NA	NA	93.5	H 413.4	R 191.0	R 604.4
1980	7.1	67.0	25.3	2.3	1.5	41.1	76.2	146.4	R 0.4	78.3	NA	NA	NA		H 406.2	R 227.7	R 633.9
1985 1990	4.5 5.2	65.7 80.8	15.7 23.2	5.1 4.2	3.6 3.5	32.5 12.5	87.0 123.2	143.9 166.6	R 0.4 R 0.6	91.7 75.0	0.3 0.3	NA 0.0	NA (s)	100.4 138.9	R 407.0 R 467.3	R 204.1 R 58.1	R 611.1 R 525.4
1995	4.2	114.6	21.7	4.4	2.9	4.1	133.0	166.0	R 0.7	64.7	0.3	0.0	(s)	117.0	R 467.5	R 58 9	H 526 4
2000	2.8	87.3	17.2	13.7	2.8	5.6	147.6	186.8	R 0.1	62.2	0.1	0.0	(s)	120.8	R 460.2	Reca	R 546 5
2005	1.5	68.9	16.9	0.8	6.5	0.1	124.5	148.9	(s)	56.9	(s)	0.0	(s)	75.4	351.6	R 51 3	H 402.9
2006	2.0	72.9	21.5	1.0	6.8	(s) (s)	130.5	159.9	(s)	81.1	0.0	0.0	(s)	75.1	391.0	R 44.7 R 39.9	R 435.7 R 396.4
2007 2008	3.2 3.0	75.4 78.0	23.0 28.6	1.1 4.3	5.0 4.5	(S)	123.0 122.0	152.1 159.5	(s) (s)	54.9 55.3	(s) (s)	0.0 0.0	(s)	70.8 72.1	356.5 367.8	R 43.3	R 411.1
2009	3.5	73.4	16.4	3.1	4.3	(s) 1.7	115.1	140.6	(s)	56.6	(s)	0.0	(s)	72.1 79.7	353.8	R 46.8	R 400.6
2010	2.7	73.6	17.3	4.3	5.6	1.6	107.8	136.5	(s)	76.0	(s)	0.0	(s)	90.9	379.8	R 46.8 R 62.2	H 441.9
2011	1.8	78.5	16.9	5.5	5.7	1.6	98.7	128.5	(s)	74.7	0.1	0.0	(s)	95.3	R 378.8	R 33.6	R 412.5
2012	2.1	80.5	14.7	5.2	5.6	1.1	106.8	133.4	(s)	77.7	(s)	0.0	(s)	94.1	387.8	R 38.3 R 50.5	R 426.1
2013 2014	2.0 2.7	83.6 83.0	15.0 14.3	5.7 5.6	5.8 5.2	1.0 0.0	97.3 94.8	124.8 119.9	0.0	78.0 78.0	0.1 0.1	0.0 0.0	(s)	92.9 95.6	381.3 379.2	H 52 8	H 432 U
2015	1.9	81.4	17.9	5.7	5.1	0.0	106.1	134.7	0.0	78.4	0.1	0.0	(s)	91.3	387.9	R 48.3 R 42.7	R 436.2
2016	1.9	85.5	18.7	5.7	5.0	0.0	103.0	132 4	0.0	84.5	0.1	0.0	(s)	87.6	392 0	R 42.7	R 434.8
2017	1.4	87.1	17.9	3.1	5.0	0.1	R_100.6	R 126.7	0.0	78.5	0.1	0.0	(s)	84.8	R 378.7	H 39 5	H 418.2
2018	1.4 1.5	84.0 85.2	22.5	3.9	5.1	(s) 0.0	R 99.6 R 98.7	R 131.2 R 131.1	0.0	76.7	0.1 0.1	0.0	(s)	86.2	R 379.6 R 379.5	R 42.2 R 51.9	R 421.9 R 431.4
2019 2020	1.5 1.5	85.2 84.7	25.0 25.8	2.3 2.8	5.1 5.1	0.0	R 88.1	R 121.8	0.0 0.0	75.8 70.4	0.1 0.1	0.0	(s) (s)	85.9 76.6	R 355.3	1151.9 R 25.0	R 390.3
2020	1.5	87.7	20.2	3.6	5.0	(s)	R 86.7	R 115.6	0.0	70.4 72.1	0.1	0.0	(s)	73.1	R 350.1	R 35.0 R 33.1	R 383.2
2022	1.5	87.2	20.4	5.7	5.2	(s) (s)	84.6	116.0	0.0		0.1	0.0	(s)		344.4	31.8	376.2
						. ,							1,7				

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Washington

						Pe	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet		·		Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	7	(s)	2,161	2,574 3,022	6	4,502	413	22,052	1,707	33,415	1			
1965	.1	1	434 351	3,022	21 38 37 92	6,919	381	25,886	1,443	33,415 38,104	2			
1970 1975	(s) (s)	6 6	351 274	3,956 6,616	38 37	10,637 14,036	400 428	35,213 40,196	2,025 2,109	52,620 63,696	2			
1975 1980	0	4	274 356	6,616 9,595	92	12,036	428 501	40,196 41,897	2,109 10,112	63,696 74,589	2			
1985 1990	0	3	202 313	10,139 11,609	329	15,417	456 513	42 971	5,492	75,005 101,823 112,793	14			
1990	0	5 9	229	11,609	291 179	22,343 23,039	490	52,525 58,222	14,229 16,551	101,823	16 18			
2000	ő	6	332 262	18,748 19,543	18	24 726	523 441	62,246 63,818	6,635 7,773	113,227 110,556 113,833 120,562 111,068	18			
2005	0	9	262	19,543	239	18,480	441	63,818	7,773	110,556	2			
2006 2007	0	/ 8	184 176	23,925 24,589	244 167	18,588 20,451	430 444	64,264 64,756	6,199 9,979	113,833 120,562	1 2			
2008	Ö	7	132 112	22,643 19,762	416 229	20,110	412 370	64,756 62,853 63,583	4,502 6,988	111,068	2			
2009	0	8	112	19,762	229	18,293	370	63,583	6,988	109 336	3			
2010 2011	0	8	160 174	19,124 20,918	20	13,184 13,260	514 508	62,605 62,035 61,476	6,466 7,767	102,073 104,684 104,267	7			
2012	ő	10	174 187	19.253	21 19	12.943	495	61,476	9.893	104,267	7			
2013	0	11	164 73	18,459 19,638	23	14,037 14,536	533 543	63,995 63,799	9,577 6,491	106,787 105,106	6			
2014 2015	0	9 12	/3	19,638 21,009	23 26 34	14,536 16,262	543 614	63,799 64,480	6,491 8,741	105,106	5 5			
2016	0	12	93 87 86	21,951	54	17,503	R 603 R 519	64.204	17.901	111,233 R 122,303 R 118,541	6			
2017	0	13	86	21,951 21,360	62	18,470	R 519	64,204 64,369	17,901 13,674	R 118,541	7			
2018 2019	0	14 13	102	22,673 22,629	54 62 50 122	18,527 19,598	R 499 R 514	66,789	10,307	R 118,949	7			
2019	0	B 4 4	114 98	20,103	99	12,360	H 383	67,369 52,518	12,181 5,918	R 122,526 R 91,477	99 98			
2021	Ō	H 14	111	20,103 R 21,041	199	16,021	H 453	57,814	12.314	H 108.259	104			
2022	0	17	115	21,237	98	17,911	465	57,991	12,619	110,749	114			
								Ilion Btu						
1960	0.2	0.4	10.9 2.2	15.0 17.6	(s) 0.1	24.4 38.2	2.5	115.8	10.7 9.1	179.4 205.4	(s) (s) (s)	180.0 206.2	(s)	180.0 206.2
1965 1970 1975	(s) (s)	0.7 6.8	1.8	23.0	0.1	59.3	2.3 2.4 2.6	136.0 185.0	12.7	284.4	(S) (S)	291.2	(s) (s)	291.2
1975	(s)	6.1	1.4	23.0 38.5	0.1	59.3 78.7	2.6	211.1	13.3	284.4 345.8	(s)	351.9	(e)	351.9
1980 1985	0.0 0.0	3.9 3.0	1.8 1.0	55.9 59.1	0.4 1.3	67.5 86.6	3.0 2.8	220.1 225.7	63.6 34.5	412.3 411.0	(s) (s)	416.1 414.1	(s) 0.1 R (s) R (s)	416.1 414.2
1990	0.0	5.3	1.6	67.6	1.1	126.0	3.1	275.9	89.5	564.8	0.1	570.8	R (s)	H 570 Q
1995	0.0	5.3 9.1 6.6	1.6 1.2 1.7	82.0	1.1 0.7	130.4	3.0 3.2	303.0 323.7	104.1	624.2	0.1	633.3	R (s)	H 633.4
2000 2005	0.0 0.0	6.6	1.7	109.1 113.7	0.1 0.9	140.2 104.8	3.2 2.7	323.7 331.3	41.7 48.9	619.7 603.6	0.1	626.3 612.9	R (s)	R 626.3 612.9
2006	0.0	7.3	1.3 0.9	138.8	0.9	105.4	2.6	333.2	39.0	620.9	(s) (s)	629.0	(s) (s)	629.0
2007	0.0	9.0 7.3 8.1 7.3	0.9	142.2	0.6	116.0	2.7	333.2 333.0	62.7	620.9 658.1 598.9	(s) (s)	667.3	(s) (s)	667.3
2008	0.0	/.3 8.2	0.7	130.9 114.2	1.6	114.0 103.7	2.5	320.9 323.6	28.3 43.9	598.9 580 1	(s)	607.2 597.4	(s)	607.2 597.4
2009 2010	0.0 0.0	8.2 8.3	0.6 0.8	110.4	0.9 0.1	103.7 74.8 75.2	2.2 3.1	323.6 317.2	43.9 40.6	589.1 547.1	(s) (s)	555.4	(s) R (s) R (s)	555.4
2011	0.0	7.4	0.9	120.7	0.1	75.2	3.1	314.1	48.8	562.8	(s)	570.2	R (s)	H 570 2
2012 2013	0.0 0.0	10.0 10.9	0.9 0.8	111.0 106.4	0.1 0.1	73.4 79.6	3.0 3.2	311.2 323.8	62.2 60.2	561.8 574.1	(s) (s)	571.8 585.1	(s) (s)	R 571.8 585.1
2014	0.0	9.9	0.4	113.2	0.1	82 4	3.3	322 8	40.8	562 9	(s)	572.9	(s)	572.9
2015	0.0	9.9 13.3 13.4	0.5	121.1	0.1	92.2 99.2	3.7	326.1 324.6	55.0	598.6 R 667.0 R 642.7	(s)	611.9	(s) (s)	611.9
2016 2017	0.0 0.0	13.4 13.5	0.4 0.4	126.4 123.0	0.2 0.2	99.2 104.7	R 3.7 R 3.1	324.6 325.3	112.5 86.0	n 667.0 R 642.7	(s) (s) (s)	R 680.5 R 656.3	(s) (s) (s) R 0.2	R 680.5 R 656.3
2017	0.0	14.7	0.4	130.6	0.2	105.1	R30	337.6	64.8	R 641.7	(s) (s)	H 656.5	(s)	H 656.5
2019	0.0	14.1 R 14.7	0.6	130.3	0.5	111.1	R 3.1 R 2.3	340.3	76.6	R 641.7 R 662.5	0.3	R 676.9 R 506.5	R 0.2	H 677 1
2020	0.0	n 14.7 R 15.5	0.5	115.7 R 121 2	0.4 0.8	70.1	n 2.3	265.3	37.2 77.4	491.5 R 597.2	0.3 0.4	<sup>n</sup> 506.5	n 0.2 R o 2	R 506.7 R 603.3
2021 2022	0.0 0.0	R 15.5 18.9	0.5 0.6 0.6	115.7 R 121.3 122.4	0.8	90.8 101.6	2.7 2.8	292.0 292.8	79.3	491.5 R 587.2 601.6	0.4	R 603.1 620.9	R 0.2 R 0.2 0.2	621.1

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Washington

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>	Wood	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	0	0	2	0	14	16	0	34,154		0	NA	NA	-50	
1960 1965 1970	0	0	(s) (s)	Ō	3	16 3	0	49,105		Ō	NA	NA	-481	
1970	0	0	(s)	0	3 71	4	2,614	69,391		0	NA	NA NA	617	
1975 1980	4,009 4,950	1	31	0	201	75 232	3,308 2,041	83,527 82,982		0	NA NA	NA NA	1,730 859	 
1985	5 192	(s)	17	0	0	17	8,038	76.923		0	0	0	904	
1990 1995	4,852 3,857	(s) 40	30 234	Ö	i	31	5,742 6,942	87,193		Ō	Ö	0	243 -765	
1995	3,857	40	234	0	0	234	6,942	82.220		0	0	0	-765	
2000 2005	6,355 6,996	74 66 59 57 75	782 21 39 27 45	(s)	0	783 21	8,605 8,242	80,161 72,023		0	0	0 498	-1,133 -3,005	
2005	6,996 4,125	50 50	21 30	0	0	39	9,328	72,023 81,944		0	0	1,038	-3,005 -8,657	
2007	5.681	57	27	Ö	ő	27	8,109	78,781		ŏ	ő	2.438	-3.259	
2008	5,681 5,763	75	45	0	0	45	9,270	77,589		0	0	2,438 3,657	-7,273	
2009	4,974 5,727	91	71 37	0	0	71	6,634 9,241	72,886		0	0	3,572 4,745	-6,178	
2010	5,/2/	80 39 43 88 85 97	3/	0	0	37 31		68,233		0	0	4,745 6,262	-6,953 -6,761	
2011 2012	3,425 2,502	39 43	31 27	0	0	27	4,806 9,334	91,815 89,463		0	i	6,262 6,600	-6,761 -6,173	
2013	4,429 4,475	88	25	Ö	ŏ	25 29	8,461	78.155		ŏ	i	6,600 7,004 7,268	-6,332 -7,539	
2014	4,475	85	29	0	0	29	9,497	78,155 79,463		0	1	7,268	-7,539	
2015	3,405	97	31 27 25 29 21 24	0	0	21	8,161	73,405		0	1	7,075 8,042	-3,310 -778	
2016 2017	3,075 3,623	82 81	24 28	0	0	24 28	9,626 8,128	78,346 82,183		0	1 (s)	8,042 6,925	-7/8 -1,069	
2018	3,628	77	26	0	0	26	9,708	80,883		0	(5)	7 900	-4,012	
2019	3,628 4,804	106	26 23	Ö	Ŏ	26 23	8,866	66,018		Ö	44	7,900 6,677	-3,881	
2020	3,476	95	23	0	0	23	9,427	76,410		0	46	9 266	4,951	
2021 2022	2,120 2,405	112 97	23 22 46	0	0	23 22 46	8,511 9,852	71,379 78,916		0	50 83	9,298 8,061	3,920 3,668	
	2,403			0			Frillion Btu	70,510				0,001	3,000	
1000	0.0	0.0	(a)	0.0	0.1	0.1	0.0	B 446 F	(a)	0.0	NA	NA	0.0	B 110 5
1960 1965	0.0 0.0	0.0	(s) (s)	0.0	(s)	(s)	0.0	R 116.5 R 167.5	(s) 0.0	0.0	NA NA	NA NA	-0.2 -1.6	R 116.5 R 165.9
1970	0.0	0.0	(s)	0.0		(s)	28.7	R 236.8	(s)	0.0	NA	NA	2.1	R 267.6
1975	64.9	0.0	(s) (s) 0.2	0.0 0.0	(s) 0.4	(s) 0.5	28.7 36.4	R 285.0	(s) 0.0	0.0	NA	NA	5.9	R 392.7
1980	80.2	1.0	0.2	0.0	1.3	1.4	22.3	R 236.8 R 285.0 R 283.1 R 262.5	0.0	0.0	NA	NA	2.1 5.9 2.9 3.1	R 267.6 R 392.7 R 390.9 R 438.2
1985	84.1 78.9	0.1 0.2	0.1 0.2 1.4	0.0 0.0	0.0 (s)	0.1 0.2	85.4 60.8	R 207.5	2.9 3.7	0.0 0.0	0.0 0.0	0.0 0.0	3.1	H 438.2
1990 1995	63.8	41.4	1.4	0.0	0.0	1.4	72.9	R 297.5 R 280.5	6.0	0.0	0.0	0.0	0.8 -2.6	R 463 4
2000	102.9	76.3	4.6	(s) 0.0	0.0	4.6	89.7	R 273.5	9.8	0.0	0.0	_ 0.0	-3.9 -10.3	R 553.0
2005	110.8	67.3	0.1 0.2	0.0	0.0	0.1	86.0	R 245.7	11.2	0.0	0.0	0.0 R 1.7 R 3.5	-10.3	R 442.1 R 463.4 R 553.0 R 512.6 R 489.5 R 513.6 R 525.7
2006	67.1	60.3	0.2	0.0	0.0	0.2	97.3	H 279.6	10.9	0.0	0.0	H 3.5	-29.5	H 489.5
2007 2008	92.5 91.7	58.6 76.8	0.2 0.3	0.0 0.0	0.0 0.0	0.2 0.3	85.1 96.9	R 264.7	11.2 7.7	0.0 0.0	0.0 0.0	R 12.5	-11.1 -24.8	R 525 7
2009	80.5	94.0	0.3	0.0	0.0	0.3	69.4	R 248.7	7.7	0.0	0.0	R 12.2	-21.1	R 491 9
2010	80.5 92.2	81.9	0.2	0.0	0.0	0.2	96.6	R 232.8	10.3	0.0	0.0	R 16.2	-23.7	R 506.5
2011	55 1	40.4	0.2	0.0	0.0	0.2	50.3	R 273.5 R 245.7 R 279.6 R 268.8 R 264.7 R 248.7 R 232.8 R 313.3	9.2	0.0	(s)	R 8.3 R 12.5 R 12.2 R 16.2 R 21.4	-23.1	R 491.9 R 506.5 R 466.7
2012 2013	40.6 72.9	44.2 89.6	0.2 0.1	0.0	0.0 0.0	0.2	97.8	R 305.2 R 266.7	6.3 7.7	0.0	(s) (s)	H 22.5	-21.1 -21.6	R 495.8 R 527.7
2013	72.9	69.6 88.2	0.1	0.0 0.0	0.0	0.1 0.2	88.4 99.3	R 271 1	7.7	0.0 0.0	(S)	R 24.8	-21.0 -25.7	R 530 5
2014	73.8 56.4 51.4	88.2 103.5	0.2 0.1	0.0	0.0	0.2	85.3	R 271.1 R 250.5 R 267.3	8.3	0.0	(s)	R 22.5 R 23.9 R 24.8 R 24.1 R 27.4	-25.7 -11.3 -2.7	R 539.5 R 516.9 R 540.7
2016	51.4	87.9	0.1	0.0	0.0	0.1	100.7	R 267.3	8.4	0.0	(s)	R 27.4	-2.7	R 540.7
2017	60.3 59.8	87.1 83.3	0.2 0.1	0.0	0.0	0.2	85.0	R 280.4 R 276.0 R 225.3	8.3	0.0	(s)	R 23.6	-3.6 -13.7	R 541.2 R 541.7 R 528.3
2018	59.8	83.3	0.1	0.0	0.0	0.1	101.5	n 2/6.0 B aas a	7.8	0.0	(s)	™ 27.0 B 22.0	-13./	n 541.7
2019 2020	79.4 57.9	115.2 102.7	0.1 0.1	0.0 0.0	0.0 0.0	0.1 0.1	92.6 98.5	R 260.7	6.1 5.7	0.0 0.0	R 0.1 R 0.2	R 31 6	-13.2 16.9	R 574 3
2021	35.5	121.8	0.1	0.0	0.0	0.1	R 88.8	R 260.7 R 243.5	6.1	0.0	R 0.2 0.3	R 23.6 R 27.0 R 22.8 R 31.6 R 31.7	13.4	R 574.3 R 541.1 564.2
2022	40.8	104.8	0.3	0.0	0.0	0.3	102.7	269.3	6.1	0.0		27.5	12.5	

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, West Virginia

						Petroleum								
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	<b>HGL</b> <sup>ℂ</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels	i			Mi	llion kilowatthour	s	Thousan	d barrels
1960	14,058	150	2,473	558	169	11 609	1 481	6,574	22 864	0	938	0	NA	NA
1960 1965	19,049	150 164	2.837	558 961	130	11,609 12,762	1,481 2,153	5,944	22,864 24,788	ŏ	938 828	Ö	NA	NA
1970	25,376	181	3,917	1,230	290	15.831	2,065	4,883	28,216	0	996	0	NA	NA
1971	26,010	178	4,663 5,598	1,324	231 200	16,428 16,904	1,882 1,751	4,854 5,254	29,382 31,221	0	1,146	0	NA	NA
1972 1973	29,834 33,587	199 186	5,598 6,080	1,514 1,610	193	18,200	1,751	5,254 5,269	32,729	0	1,246 1,176	0	NA NA	NA NA
1974	35,693	182	5,651	1.763	206	18,326	1,736	5,600	33,282	0	1,148	0	NA	NA
1975	34,469	158	5,922	1,498	249	19,314	2,504	6,658	36,145	Ö	1,063	Ö	NA	NA
1976	36,314	151	6,146	1,454	285	20,538	4,718	6,026	39,168	0	1,026	0	NA	NA
1977	35,620	145 152	8,292	1,519	299 285	21,205	4,901	6,335	42,551 40,730	0	943 925	0	NA	NA
1978 1979	32,852 34,176	149	7,502 10,097	1,390 3,118	285	21,267 20,498	4,236 2,745	6,050 6,221	43,004	0	1,232	0	NA NA	NA NA
1980	34,939	143	10,541	3,435	324 357	19,390	1,463	5,188	40,375	0	1,114	0	NA	NA
1981	35,893	149	9 432	3 249	339 297	18.802	991 1,391	5,302	38,114	Ö	1,090	Ŏ	(s)	NA
1982	32,798	130	7,701	2,683	297	18,956	1,391	4,688	35,716	0	1,118	0	`Ó	NA
1983	33,269	116	10,113	2,698	277	18,686	1,097	3,885	36,755	0	1,109	0	0	NA
1984 1985	36,253 34,999	124 117	11,228 10,414	392 1,157	242	18,537 18,513	1,497 970	4,157 4,203	36,053 35,492	0	1,138 1,058	0	0	NA NA
1986	35,097	113	8,049	1,157	235 219	18,652	1,182	4,203 4,222	33,471	0	1,051	0	0	NA NA
1987	34,890	115	9,718	1.202	211	19.338	541	4,377	35,386	0	1.005	0	0	NA
1988	36,527	122	9,747	1,231	248	19,744	631	5,140	36,741	Ō	988	Ō	Ō	NA
1989	37,289	129	10,518	1,535	380	19,484	1,047	5,267	38,232	0	1,307	0	0	NA
1990	34,896	120	10,597	1,612	273	19,643	1,268	4,566	37,959 36,621	0	1,295	0	0	NA
1991 1992	32,028 32,678	111 129	10,393 10,051	1,821 1,692	237 271	19,342 19,860	1,064 575	3,764 3,940	36,389	0	1,065 1,271	0	111	NA NA
1993	33,574	135	10,930	1,821	257	19,638	509	3,442	36,596	0	1,114	0	65	NA NA
1994	36,262	146	11,501	1,972	225	19,960	493 197	4.050	38 202	Ö	1.146	Ö	48	NA
1995	35,381	149	11,287	1,944	174	20,891	197	3,828	38,321	0	1,193	0	33	NA
1996	37,104	155	9,197	2,199	170	18,899	352	3,734	34,551	0	1,425	0	5	NA
1997 1998	38,098 39,877	160 143	10,526 12,378	2,874 2,157	172 175	19,752 19,724	231	3,596 4,796	37,151 39,302	0	1,139 1,086	0	5	NA NA
1996	40,351	143	11,854	2,157 1,076	184	19,724	72 93	4,796 4,628	39,302 37 325	0	930	0	(e)	NA NA
2000	39,892	148	12,539	1,578	189	19,424	293	3,910	37,325 37,933	0	1.151	0	(s) 8	NA
2001	35,622	141	12,554	1,386	191	19,717	228	5,797	39,873	0	952	0	126	(s)
2002	40,779	146	15,060	992	249	19,288	113	5,902	41,603	0	1,066	9	312	1
2003	40,223	127	12,708	1,192 1,638	262 252	19,592	50 344	5,105	38,910 42,548	0	1,356 1,318	170	411	1
2004 2005	38,747 40,306	122 117	13,761 14,406	1,638	252	20,341 20,203	344 440	6,212 5,973	42,548 42,308	0	1,318	161 154	441 112	4
2006	40,087	113	14,953	1,491	238 231	20,326	336	6,064	43,402	0	1,572	174	159	
2007	40,708	116	14.744	1,176	236 227	20,217	999	5.911	43.284	Ö	1,254 1,248	168 392	224	12 17
2008	40,199	111	14,453	1,307	227	18,569	606	6,278	41,439	0	1,248	392	1,229	14
2009	31,103	110	12,591	1,165	198	20,042	86	2,720	36,803	0	1,646	742	1,667	15
2010 2011	35,243 34,392	113 115	13,235 13,208	3,755 3,691	234 252	20,460 19,483	39 45	2,281 2,493	40,006 39,171	0	1,367 1,453	939 1,103	1,781 1,759	12
2011	34,392	130	12,826	3,583	252 245	19,483	231	2,493 2,297	38,233	0	1,433	1,103	1,759 1,824	15 12 42 36
2013	31,851	142	13,211	4 053	209	18.791	166	2 221	38.652	0	1 739	1.387	1 805	177
2014	33,561	165	12.747	3,660 3,627	197 219	19 454	72 99	2 100	38 230	Ŏ	1,242 1,385	1,451	1,821 1,774	155 167
2015	29,750	174	11,895	3,627	219	19,269	99	2 493	37,602	0	1,385	1,376	1,774	167
2016	30,650	172	13,345	3,427	226	19,691	55	R 2,755	R 39,499	0	1,638	1,432	1,857	335 353
2017 2018	28,919 26,821	184 203	13,290 16,801	3,361 3,465	228 196	19,106 19,986	0	R 2,041 R 2,263	R 38,027 R 42,715	0	1,658 1,848	1,682 1,770	1,849 1,990	232
2019	24,907	203	14,826	3,809	208	19,862	17	H 2 439	R 41.161	0	1,706	1,631	1,969	163
2020	21,550	221 R 243	12,460	3,774	159	16,838	4	H 2.299	R 35,534	ő	1,592	1,898	1,665	163 _ 154
2021	25,380	H 255	R 14,900	3,765	171	19,015	7	R 2,429 2,424	R 40,288	Ō	1,705	1,624	1,899	H 146
2022	21,589	262	14,984	3,920	174	18,319	7	2,424	39,828	0	1,647	2,007	1,845	119

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into

distillate fuel oil. Excludes biofuels product supplied.

Chydrocarbon gas liquids, include natural gas liquids and refinery olefins.

Through 2004, includes herosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, West Virginia (trillion Btu)

					Fossil	fuels						Fossil fuels (as commingled)	
						Petroleum					,	as commingica)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
960	354.4	155.6	14.4	2.1	0.9	61.0	9.3	39.0	126.7	636.7	155.6	14.4	61.0
965	477.4	176.1	16.5	3.7	0.9	67.0	9.3 13.5	35.5	136.9	790.4	176.1	16.5	67.0
970	612.4	186.5 183.6	22.8 27.2	4.5	1.6	83.2	13.0	29.3 29.3	154.5 160.8	953.4	186.5	22.8 27.2	83.2
971 972	618.8 716.5	183.6 204.9	27.2 32.6	4.9	1.3 1.1	86.3 88.8	11.8 11.0	29.3 31.7	160.8	963.1 1,092.3	183.6 204.9	27.2	86.3
972 973	810.2	191.9	35.4	5.6 5.9	1.1	95.6	8.7	31.7	170.8 178.3	1,180.4	191.9	32.6 35.4	88.8 95.6
974	841.8	186.6	32.9	6.4	1.1	96.3	10.9	33.5	181.1	1,209.5	186.6	32.9	96.3
975	817.4	164.3	34.5	5.4	1.4	101.5	15.7	39.7	198.2	1,179.9	164.3	34.5	101.5
976 977	872.4 847.7	157.2 150.6	35.8 48.3	5.3 5.4	1.6 1.7	107.9 111.4	29.7 30.8	36.2 37.8	216.4 235.4	1,245.9 1,233.8	157.2 150.6	35.8 48.3	107.9 111.4
978	785.7	156.6	43.7	5.0	1.6	111.7	26.6	36.4	225.0	1,167.3	156.6	43.7	111.7
979	828.8	152.1 147.6	58.8	11.2	1.8	107.7	17.3	37.3	234.0	1,214.9	152.1	58.8	107.7
980	857.8	147.6	61.4	12.3	2.0	101.9	9.2	30.9	217.6	1,223.0	147.6	61.4	101.9
981	877.5 808.0	154.5 136.1	54.9 44.9	11.5 9.4	1.9 1.7	98.8 99.6	6.2 8.7	31.8 28.1	205.1 192.3	1,237.1 1,136.3	154.5 136.1	54.9 44.9	98.8 99.6
982 983	826.1	120.2	58.9	9.4	1.5	98.2	6.9	23.1	198.0	1,144.3	120.2	58.9	98.2
984	898.4 871.7	131.0	65.4	1.4	1.3	97.4	9.4	24.8	199.8	1,229.2	131.0	65.4	97.4
985 986	871.7 877.2	125.0 121.1	60.7 46.9	4.1 4.1	1.3 1.2	97.2 98.0	6.1 7.4	25.0 25.2	194.4 182.9	1,191.2 1,181.2	125.0 121.1	60.7 46.9	97.2 98.0
987	871.7	121.1	56.6	4.1	1.2	101.6	7.4 3.4	26.2 26.2	193.3	1,188.8	121.1	56.6	96.0 101.6
988	915.4	131.5	56.8	4.5	1.4	103.7	4.0	30.9	201.2	1,248.1	131.5	56.8	103.7
989	932.5	139.4	61.3	5.6	2.1	102.4	6.6	31.6	209.6	1,281.5	139.4	61.3	102.4
990 991	873.5 802.0	129.0 118.8	61.7 60.5	5.8 6.4	1.5 1.3	103.2 101.6	8.0 6.7	27.5 22.6	207.7 199.2	1,210.1 1,120.1	129.0 118.8	61.7 60.5	103.2 101.6
992	812.7	137.7	58.5	6.1	1.5	101.8	3.6	23.8	197.9	1,148.3	137.7	58.5	101.6
993	821.2	144.2	63.7	6.5	1.4	102.2	3.2	20.7	197.7	1,163,1	144.2	63.7	102.5
994 995	890.8 871.3	155.1	66.9	7.1	1.3	103.9	3.1	24.5	206.8	1,252.7 1,235.7	155.1	66.9 65.7	104.1
995 996	8/1.3 913.6	157.8 164.3	65.7 53.5	6.9 7.8	1.0 1.0	108.6 98.5	1.2 2.2	23.2 22.8	206.6 185.8	1,235.7 1,263.7	157.8 164.3	65.7 53.5	108.7 98.5
997	937.7	170.3	61.3	10.2	1.0	102.8	1.5	22.1	198.9	1,306.9	170.3	61.3	102.8
998	978.3	151.9	72.0	7.7	1.0	102.6	0.5	29.4	213.1	1,343.4	151.9	72.0	102.6
999	993.0	147.7	69.0	4.0	1.0	101.4	0.6	28.1	204.1	1,344.8	147.7	69.0	101.4
000	977.8 866.6	157.9 150.5	73.0 73.1	5.8 5.2	1.1 1.1	101.0	1.8	23.8	206.5 218.0	1,342.2 1,235.1	157.9 150.5	73.0 73.1	101.0 102.5
002	993.5	155.5	73.1 87.6	5.2 3.7	1.4	102.1 99.2	1.4 0.7	35.0 36.0	228.7	1,377.7	150.5 155.5	73.1 87.6	100.3
003	978.4	135.4	73.9	4.5	1.5	100.4	0.3	30.9	211.5	1.325.3	135.4 129.4	73.9	101.8
004	937.1	129.4	80.1	6.2	1.4	104.2	2.2	36.4	230.4	1,296.8	129.4	80.1	105.7
005 006	959.7 958.9	125.0 126.3	83.8 86.8	3.9 5.6	1.4 1.3	104.5 104.8	2.8	34.9 35.8	231.3 236.3	1,315.9 1,321.5	125.0 126.3	83.8 86.8	104.9 105.4
007	983.3	124.6	85.3	4.4	1.3	103.2	2.1 6.3	34.9	235.4	1,343.2	124.6	<i>85.3</i>	104.0
800	955.6	119.6	83.5	4.9	1.3	90.6	3.8	37.6	221.7	1,296.9	119.6	83.5	94.8
009 010	742.9 848.1	118.6 121.8	72.3 76.1	4.4 14.4	1.1	96.2	0.5 0.2	16.9 14.4	191.5 204.0	1,053.0 1,173.9	118.6 121.8	72.7 76.4	102.0 103.7
010	848.1 822.6	121.8 124.9	75.4	14.4 14.2	1.3 1.4	97.5 92.5	0.2	14.4 15.8	204.0 199.7	1,173.9 1,147.2	121.8	76.4 76.2	98.6
012	756.7	140.1	73.1	13.7	1.4	90.1	1.5	14.6	194.4	1,091.3	140.1	74.0	96.4
013	771 2	152 9	74.7	15.6	1.2	88.8	1.0	13.9	195.2	1,119.3	152.9	76.1	95.1
014 015	816.5 730.9	180.2 191.1	72.2 66.9	14.0 13.9	1.1 1.2	92.1 91.3	0.5 0.6	13.1 15.7	193.0 189.7	1,189.7 1,111.7	180.2 191.1	73.5 68.5	98.4 97.4
016	750.9 752.0	188.5	73.9	13.1	1.3	93.1	0.8	15.7 _ 17.5	199.2	R 1 139 7	188.5	76.8	97.4 99.5
017	710.4	199.3	74.0	12.9	1.3	90.1	0.0	H 12 A	199.2 R 191.1	H 1 100 9	199.3	76.5	96.5
018	661.8 621.7	221.4	93.9	13.3	1.1	94.1	(s)	R 14.3 R 15.5	R 216.7 R 208.0	ศ 1 กดด Զ	221.4	96.8	101.0
1019 1020	621.7 539.7	239.9 R 264.3	83.2 69.5	14.6 14.5	1.2 0.9	93.5 79.3	0.1 (s)	n 14 6	P 208.0 P 178.7	R 1,069.6 R 982.7	239.9 R 264.3	85.4 _ 71.7	100.3 85.1
021	633.6	<sup>H</sup> 277.0	R 84.7	14.4	1.0	89.4	(s)	<sup>H</sup> 15.3	R 204.5	R 1,115.1	H 277.0	R 85.9	96.0
022	536.6	284.8	85.2	15.0	1.0	86.1	(s)	15.3	202.3	1,023.8	284.8	86.4	92.5

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, West Virginia (continued) (trillion Btu)

							Renewable en	ergy							<u></u>
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 3.2 R 2.8	13.4	NA	NA	NA	NA	13.4	0.0	NA	NA	R 16.6	R -52.9 R -71.9	0.0	R 600.4
1965 1970	0.0 0.0	H 2.8 R 3.4	11.9 10.7	NA NA	NA NA	NA NA	NA NA	11.9 10.7	0.0 0.0	NA NA	NA NA	H 14.7	H -71.9	0.0 0.0	R 733.3 R 772.7
1971	0.0	R 3.9	10.7	NA NA	NA NA	NA NA	NA NA	10.7	0.0	NA NA	NA NA	H 14 2	R -194.8 R -222.2 R -303.7 R -374.7 R -410.4	0.0	R 755.1 R 804.7
1972	0.0	R 4.3	11.8	NA	NA	NA	NA	11.8	0.0	NA	NA	H 16 1	R -303.7	0.0	R 804.7
1973 1974	0.0 0.0	R 4.0 R 3.9	12.0 11.8	NA NA	NA NA	NA NA	NA NA	12.0 11.8	0.0 0.0	NA NA	NA NA	R 16.0 R 15.7	R -410 4	0.0 0.0	R 821.7 R 814.8
1975	0.0	R36	11.7	NA	NA	NA	NA	11.7	0.0	NA	NA	H 15 /	n _//20 /	0.0	R 765.6 R 802.9 R 800.6 R 785.2 R 799.0
1976	0.0	R 3.5 R 3.2	14.1	NA	NA	NA	NA	14.1	0.0	NA	NA	R 17.6 R 17.7	R -460.7 R -450.8	0.0	R 802.9
1977 1978	0.0 0.0	R 3.2	14.5 17.7	NA NA	NA NA	NA NA	NA NA	14.5 17.7	0.0 0.0	NA NA	NA NA	R 20.8	11 -450.8 R -403.0	0.0 0.0	11 800.6 R 785.2
1979	0.0	R 4 2	21.1	NA	NA	NA	NA	21.1	0.0	NA	NA	R 25 3	R -403.0 R -441.2 R -474.9 R -505.8	0.0	R 799.0
1980	0.0	R 3.8 R 3.7	11.9	ŅĄ	NA	NA	NA	11.9	0.0	NA	NA	R 15.7 R 14.3	R -474.9	0.0	R 763.8 R 745.6
1981 1982	0.0 0.0	R 3.8	10.6 14.1	(s) 0.0	NA NA	NA NA	0.0	10.6 14.1	0.0	NA NA	NA NA	114.3 R 17 Q	" -505.8 R <sub>-468.1</sub>	0.0 0.0	11 /45.6 R 686.2
1983	0.0	R 3 8	11.7	0.0	NA	NA	0.0	11.7	0.0	NA	0.0	R 17.9 R 15.5 R 17.6 R 17.6	R -468.1 R -506.4 R -555.2 R -566.6	0.0	R 686.2 R 653.5 R 691.6 R 642.2
1984	0.0	н з.9	13.7	0.0	NA	NA	0.0	13.7	0.0	0.0	0.0	R 17.6	R -555.2	0.0	R 691.6
1985	0.0 0.0	R 3.6 R 3.6	14.0 20.4	0.0 0.0	NA NA	NA NA	0.0 0.0	14.0	0.0 0.0	0.0 0.0	0.0 0.0	R 17.6	R -566.6	0.0 0.0	R 642.2
1986 1987	0.0	H 3.4	18.0	0.0	NA	NA	0.0	20.4 18.0	0.0	0.0	0.0	R 21.5	R -560.2 R -549.4	0.0	R 645.0 R 660.8
1988	0.0	R34	18.8	0.0	NA	NA	0.0	18.8	0.0	0.0	0.0	R 22.2	R -562.5 R -570.9 R -523.5 R -462.7	0.0	H 707.8
1989 1990	0.0 0.0	R 4.5 R 4.4	11.9	0.0 0.0	NA NA	NA NA	0.0 0.0	11.9	0.0 0.0	(s) (s)	0.0 0.0	R 16.4	n -570.9 R 522.5	0.0 0.0	R 727.0
1991	0.0	R 3.6	5.0 5.2	0.0	NA	NA	0.0	5.0 5.2 5.7	0.0	(s)	0.0	R 9.5 R 8.9	R -462.7	0.0	R 696.1 R 666.3
1992	0.0	H 4.3	5.3	0.4	NA	NA	0.0	5.7	0.0	(s)	0.0	R 10 0	R -479.2 R -471.8 R -534.6	0.0	H 679 1
1993 1994	0.0 0.0	R 3.8	6.9 6.8	0.2 0.2	NA NA	NA NA	0.0 0.0	7.2 7.0	0.0 0.0	(s) (s)	0.0 0.0	R 11.0 R 11.0	H -471.8 R -534.6	0.0 0.0	R 702.4 R 729.0
1995	0.0	R 3.9 R 4.1	7.1	0.1	NA	NA	0.0	7.0	0.0	(s)	0.0	R 11.3	R -516.0 R -573.1 R -614.2 R -622.3	0.0	R 731.1 R 702.8 R 702.5 R 729.9
1996	0.0	R⊿q	7.3	(s) (s)	NA	NA	0.0	7.2 7.3 5.9 5.1	0.0	(s)	0.0	R 11.3 R 12.2 R 9.9	R -573.1	0.0	R 702.8
1997 1998	0.0 0.0	R 3.9 R 3.7	5.9 5.1	(s)	NA NA	NA NA	0.0 0.0	5.9	0.0 0.0	(s)	0.0 0.0	R 8.8	n -614.2	0.0 0.0	R 702.5
1999	0.0	R 3.2 R 3.9	5.2	(s) (s)	NA NA	NA NA	0.0	5.2		(s)	0.0	R 8.5 R 9.6	R -639.8 R -619.4	0.0	R 713.5
2000	0.0	R 3.9	5.2 5.6	(s) (s)	NA	NA	0.0	5.2 5.6	(s) (s)	(s)	0.0 0.0	R 9.6	R -619.4	0.0	R 713.5 R 732.4
2001 2002	0.0 0.0	R 3.2 R 3.6	4.8 4.2	0.4 1.1	(s) (s)	NA NA	0.0 0.0	5.3 5.3 5.7	(s)	(s)	0.0 R (s) R 0.6 R 0.5	R 8.6 R 9.0	R -517.1 R -635.6	0.0 0.0	R 726.5 R 751.1
2002	0.0	R 4 6	4.2	1.4	(S)	NA NA	0.0	5.3 5.7	(s) (s)	(s)	R 0.6	R 11 0	R -631.0	0.0	R 705 3
2004	0.0	R 4.6 R 4.5	4.4	1.5	(s)	NA	0.0	5.9	(s)	(s)	R 0.5	R 11 0	R -631.0 R -579.3	0.0	R 705.3 R 728.5
2005 2006	0.0 0.0	R 4.9	12.3 10.9	0.4 0.5	(s) 0.1	NA NA	0.0 0.0	12.7 11.5	(s)	(s)	H 0.5	H 18.2	H -603.0	0.0 0.0	H 731.1
2006	0.0	R 5.4 R 4.3	11.9	0.8	0.1	NA NA	(s)	12.8	(s)	(s)	R 0.5 R 0.6 R 0.6	R 18.2 R 17.5 R 17.7	R -603.0 R -585.0 R -576.3 R -549.5 R -391.8 R -468.0	0.0	R 731.1 R 754.1 R 784.5 R 770.4
2008	0.0	R43	13.0	4.3	0.1	NA	(s)	17.4	(s)	(s)	R 1.3 R 2.5 R 3.2	H 23.0	R -549.5	0.0	R 770.4
2009	0.0	R 5.6 R 4.7	21.7	5.8	0.1	NA	(s) (s) 0.0	27.5	(s)	(s)	H 2.5	R 35.7 R 37.6	H -391.8	0.0 0.0	H 696 9
2010 2011	0.0 0.0	R 5.0	23.4 22.3	6.2 6.1	0.1 0.2	NA 0.0	0.0 0.0	29.6 28.6	(s) (s)	(s) 0.1	Ная	R 37.4	·· -468.0 R -455.5	0.0	R 743.4 R 729.2
2012	0.0	R49	18.9 23.9	6.3	0.2 0.9	0.0	0.0	25.4 31.1	(s)	0.1	R 4.4 R 4.7	R 34 8	R -455.5 R -404.8 R -420.9	0.0	R 721.2 R 740.3
2013	0.0	R 5.9 R 4.2	23.9	6.3	0.9	0.0	0.0	31.1	(s)	0.1	H 4.7 H 5.0	R 41.9 R 40.7	H -420.9	0.0	H 740.3
2014 2015	0.0 0.0	R 4.7	24.3 12.1	6.3 6.2	0.8 0.9	0.0 0.0	0.0 0.0	31.4 19.2	(s) (s)	0.1 0.1	R 4 7	H 28 7	R -458.5 R -381.7	0.0 0.0	R 771.9 R 758.6
2016	0.0	R 5 6	11.2	6.4	1.8	0.0	0.0	19.4 19.0	(s)	0.1	R 4.9 R 5.7 R 6.0	R 30 0	R -417.9 R -389.7	0.0	R 751.8 R 741.7
2017	0.0	R 5.7 R 6.3	10.7	6.4	1.9	0.0	0.0	19.0	(s)	0.1	H 5.7	R 30.5 R 33.0	H -389.7	(s) (s)	H 741.7
2018 2019	0.0 0.0	R 5.8	12.3 12.1	6.9 6.9	1.2 0.9	0.0 0.0	0.0 0.0	20.5 _ 19.8	(s)	0.1 R 0.1	Rss	R 31 3	R -315.9 R -284.4	(s) 0.0	R 816.9 R 816.5
2020	0.0	R 5.4	12.1 R 8.9	5.8	0.8	0.0	0.0	R 15 5	(s)	R 0.1	R 6.5 R 5.5	H 27.5	H -223 U	0.0	R 787.3
2021	0.0	R 5.8	R 9.7	6.6	0.8	0.0	0.0	H 17.1	(s)	R 0.1		H 28.6	<sup>H</sup> -306.1	0.0	R 837.6
2022	0.0	5.6	10.8	6.4	0.6	0.0	0.0	17.8	(s)	0.2	6.8	30.5	-218.8	0.0	835.5

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, West Virginia

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			-	Γhousand barrels	5	,		Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total h,m
1960	8,179	149	2,472	558	169	11,609	1,448	6,574	22,830	540					8,763			
1970	10,487	181	3,914	1,230	290	15,831	1,635	4,883	27,784	558					15,122			
1980 1990	6,440 5,023	143 120	9,862 10,230	3,435 1,612	353 273	19,390 19,643	1,463 1,268	5,188 4,566	39,692 37,591	690 610					20,831 23,132			
2000	3,268	147	12,090	1,578	189	19,424	293	3,910	37,484	453					27,693			
2005	2,431	115	14,057	1,048	238	20,203	440	5,973	41,960	556					30,152			
2006	2,225	109	14,716	1,491	231	20,326	336	6,064	43,165	524					32,312			
2007	2,652	112	14,420	1,176	236	20,217	999	5,911	42,960	449					34,184			
2008 2009	2,493 1,848	110 109	14,216 12,287	1,307 1,165	227 198	18,569 20,042	606 86	6,278 2,720	41,202 36,499	427 619					34,221			
2009	1,848 2,491	112	12,287	3,755	234	20,042	39	2,720	39,734	498					30,271 32,032			
2011	2,475	113	12,881	3,691	252	19,483	45	2,493	38,844	559					31,239			
2012	1,893	127	12,576	3,583	245	19,051	231	2,297	37,983	547					30,817			
2013	1,757	139	12,942	4,053	209	18,791	166	2,221	38,383	659					31,400			
2014	1,678	159	12,464	3,660	197	19,454	72	2,100	37,947	529					32,696			
2015	1,526	161	11,649	3,627	219	19,269	99	2,493	37,355	553					32,303			
2016 2017	1,100 932	162 174	13,130 13,082	3,427	226 228	19,691	55	R 2,755 R 2.041	R 39,284 R 37.819	496 534					32,076			
2017	1,010	174	16,512	3,361 3,465	196	19,106 19,986	0	R 2,263	R 42,426	688					31,709 33,647			
2019	1,010	205	14,596	3,809	208	19,862	17	R 2,439	R 40,931	563					33,247			
2020	960	R 222	12,203	3,774	159	16,838	4	R 2,299	R 35,277	565					32,077			
2021	1,130	R 236	R 14,599	3,765	171	19,015	7	R <sub>2,429</sub>	R 39,987	516					32,778			
2022	414	246	14,696	3,920	174	18,319	7	2,424	39,540	526					32,986			
									Trillion	Btu								
1960	213.9	154.6	14.4	2.1	0.9	61.0	9.1	39.0	126.5	R <sub>1.8</sub>	13.4	NA	NA	NA	29.9	R 540.1	R 60.3	R 600.4
1970	265.2	185.8	22.8	4.5	1.6	83.2	10.3	29.3	151.7	R 1.9	10.7		NA	NA	51.6	R 667.0	R 105.7	R 772.7
1980	166.1	147.6	57.4	12.3	2.0	101.9	9.2	30.9	213.7	R 2.4	11.9		NA	NA	71.1	R 612.6	R 151.2	R 763.8
1990	128.7	128.9	59.6	5.8	1.5	103.2	8.0	27.5	205.5	R 2.1 R 1.5	5.0		0.0	(s)	78.9	R 549.2 R 549.5	<sup>R</sup> 146.9 <sup>R</sup> 183.0	<sup>R</sup> 696.1 <sup>R</sup> 732.4
2000 2005	86.6 61.6	157.4 122.6	70.4 81.8	5.8 3.9	1.1	101.0 104.9	1.8 2.8	23.8 34.9	203.9 229.7	R 1.9	5.4 12.3		(s) (s)	(s) (s)	94.5 102.9	R 531.0	R 200.1	R 731.1
2005	56.6	122.5	85.4	5.6	1.3	105.4	2.1	35.8	235.5	R 1.8	10.9		(s)	(s)	110.2	R 537.6	R 216.4	R 754.1
2007	67.5	120.6	83.4	4.4	1.3	104.0	6.3	34.9	234.3	R 1.5	11.9		(s)	(s)	116.6	R 552.5	R 232.1	R 784.5
2008	63.8	117.6	82.2	4.9	1.3	94.8	3.8	37.6	224.6	R 1.5	13.0		(s)	(s)	116.8	R 537.4	R 233.1	R 770.4
2009	47.4	117.5	71.0	4.4	1.1	102.0	0.5	16.9	195.9	R 2.1	21.7	(-)	(s)	(s)	103.3	R 487.9	R 209.3	R 697.3
2010	63.8	120.2	74.9	14.4	1.3	103.7	0.2	14.4	208.9	R 1.7	23.4			(s)	109.3	R 527.4	R 216.3	R 743.7
2011	63.3	122.3 137.7	74.3	14.2	1.4	98.6	0.3	15.8 14.6	204.7	R 1.9 R 1.9	22.2		(s)	0.1	106.6	R 521.0 R 514.4	R 208.8 R 207.5	R 729.7 R 721.9
2012 2013	50.7 46.6	137.7	72.5 74.6	13.7 15.6	1.4 1.2	96.4 95.1	1.5 1.0	14.6	200.1 201.4	R 2.2	18.8 23.9			0.1	105.1 107.1	R 531.3	R 209.5	R 740.8
2013	44.8	173.2	71.8	14.0	1.1	98.4	0.5	13.1	199.0	R 1.8	24.2			0.1	111.6	R 554.7	R 217.6	R 772.3
2015	41.0	176.9	67.1	13.9	1.2	97.4	0.6	15.7	196.0	R 1.9	12.0			0.1	110.2	R 538.3	R 221.1	R 759.4
2016	30.6	177.6	75.6	13.1	1.3	99.5	0.3	17.5	207.4	R 1.7	11.2	0.0	(s)	0.1	109.4	<sup>R</sup> 538.0	R 214.9	R 753.0
2017	26.3	188.1	75.3	12.9	1.3	96.5	0.0	R 12.8	R 198.8	R 1.8	10.7		(s)	0.1	108.2	R 534.1	R 208.2	R 742.3
2018	28.3	209.9	95.1	13.3	1.1	101.0	(s)	R 14.3	R 224.8	R 2.3 R 1.9	12.3		(s)	0.1 R 0.1	114.8	R 592.6	R 225.9	R 818.5
2019 2020	28.2 26.8	222.3 R 241.8	84.1 70.2	14.6 14.5	1.2 0.9	100.3 85.1	0.1 (s)	R 15.5 R 14.6	R 215.8 R 185.3	"1.9 R 1.9	12.1 R 8.8	0.0		" 0.1 R 0.1	113.4 109.4	R 593.8 R 574.2	R 224.0 R 214.4	R 817.9 R 788.7
2020	31.0	R 256.1	R 84.2	14.5	1.0	96.0	(s)	R 15.3	R 211.0	R 1.8	R 9.7			R 0.1	111.8	R 621.5	R 216.9	R 838.4
2022	11.2	266.9	84.7	15.0	1.0	92.5	(s)	15.3	208.6	1.8	10.7			0.1	112.5	611.9	224.5	836.4

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, West Virginia

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL °	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	144 138	50	204	217	148	568 756				1,714 2,365			
1965	138	50	304	269	184	756				2,365			
1970 1975	107 71	58 51	250 581	254 317	267 172	772 1,070				3,459 4,979			
1980 1985	33 18	48 37	1,169 516	379	408	1,956 1,122				6,606			
1985		37	516	215	390	1,122				6,712			
1990 1995	36 8	33 35	682 496	399 398	210 287	1,291 1,181				7,578 9,166			 
2000	24	32	524	720	340	1,584				9,738			
2005	6	30	382 380	677	250 188	1,308				11,384			
2006	2	26	380	872	188	1,441				11,014			
2007 2008	0	27 28	330 340	743 847	123 47	1,196 1,234				11,749 11,763			
2009	ŏ	26	234 276	812	68 67	1,114				11,588 12,443			
2010	0	27	276	844	67	1,187				12,443			
2011 2012	0	25 23	241 190	794 672	33 16	1,068 877				11,746 11,195			 
2012	0	27	263	1,020	18	1,301				11,582			
2014	Ö	28 25	239 290	713	36 26	988				11,991			
2015	0	25	290	790	26	1,106				11,437			
2016 2017	0	23 22	269 200	584 511	37 20	889 730				11,376 10,573			
2018	ő	26	246	643	21	911				11,679			
2019	Ö	24	276	753	25	1,054				11,153			
2020 2021	0	23 24	254 241	940 756	25 25	1,219 R 1,021				10,877 11,051			
2021	0	25	251	765	23	1,039				11,137			
						<u> </u>	Trillion Btu						
1960	3.6	51.4	1.2	0.8	0.8	2.9	8.3	NA	NA	5.8	72.1	R 11.8	R 83.9
1965 1970	3.4	53.2	1.8	1.0	1.0	3.8	6.4	NA	NA	8.1	74.9	H 15.9	R 90.8 R 107.9
1970	2.6	59.7	1.5	1.0	1.5	4.0	5.7	NA	NA	11.8	83.7	R 24.2 R 34.7	<sup>H</sup> 107.9 <sup>R</sup> 118.2
1975 1980	1.7 0.8	53.2 49.8	3.4 6.8	1.2 1.5	1.0 2.3	5.6 10.6	6.0 7.5	NA NA	NA NA	17.0 22.5	83.5 91.2	R ⊿7 a	" 118.2 R 130 2
1985	0.4	39.2	3.0	0.8	2.2	6.0	8.9	NA	NA	22.9	77.5	H 46.5	R 139.2 R 124.1
1990	0.9 0.2	34.9	4.0	1.5	1.2	6.7	3.2	0.0 0.0	(s)	25.9	71.6	R 48.1 R 60.9	R 119.8 R 140.7
1995 2000	0.2 0.6	37.5 33.8	2.9	1.5 2.8	1.6 1.9	6.0 7.7	4.6 3.4	0.0 (s)	(s) (s)	31.3 33.2	79.8 78.8	R 64.3	T 140.7
2005	0.0	31.8	3.1 2.2	2.6	1.4	6.2	9.3	(s)	(s)	38.8	86.4	R 75 5	R 143.2 R 161.9
2006	0.1	29.2	2.2 1.9	3.4 2.9	1.1	6.6	8.3 9.1	(s)	(s)	37.6	81.8	R 73 8	R 155.5 R 163.2 R 165.5 R 170.8 R 180.0
2007	0.2	28.5	1.9	2.9	0.7	5.5	9.1	(s)	(s)	40.1	83.4	R 79.8 R 80.1	H 163.2
2008 2009	0.0 0.0	29.5 28.3	2.0 1.3	3.3 3.1	0.3 0.4	5.5 4.9	10.2 17.9	(s) (s)	(s) (s)	40.1 39.5	85.4 90.7	R an 1	11 105.5 R 170.8
2010	0.0	29.1	1.6	3.2	0.4	5.2	19.2	(s)	(e)	42.5	96.0	R 84.0	R 180.0
2011	0.0 0.0	27.2	1.4	3.0 2.6	0.2	4.6	18.6	(s)	R (s)	40.1	90.6	H 79 5	R 169.1 R 157.3
2012 2013	0.0 0.0	24.4 28.5	1.1 1.5	2.6 3.9	0.1 0.1	3.8 5.5	15.6 20.3	(s)	0.1 0.1	38.2 39.5	82.0 94.0	R 75.4 R 77.3	n 157.3
2013	0.0	28.5 30.9	1.5	3.9 2.7	0.1	5.5 4.3	20.3	(s) (s)	0.1	39.5 40.9	R 96.7	R 70 8	R 171.3 R 176.6
2015	0.0	27.3	1.7	3.0	0.1	4.9	9.5	(s)	0.1	39.0	80.8 R 76.9	H 78.3	R 159.0 R 153.2
2016	0.0	25.5	1.6	2.2	0.2	4.0	8.5	(s)	0.1	38.8	H 76.9	H 76 0	H 153.2
2017 2018	0.0 0.0	24.3 28.7	1.2 1.4	2.0 2.5	0.1 0.1	3.2 4.0	8.2 _ 9.7	(s) (s)	0.1 0.1	36.1 39.9	71.9 _ 82.4	R 69.4 R 78.4	R 141.3 R 160.8
2019	0.0	25.9	1.6	2.9	0.1	4.6	Ras	(s)	0.1	38.1	H 78 2	R 75 2	R 160.8 R 153.4
2020	0.0 0.0	24.9 R 25.9	1.5	3.6 2.9	0.1	5.2	R 6.3 R 6.9	(s)	0.1 R 0.1	37.1	R 73.6 R 75.1	R 72.7 R 73.1	R 146.3 R 148.2
2021 2022	0.0 0.0	<sup>H</sup> 25.9 27.2	1.4 1.4	2.9 2.9	0.1 0.1	4.4 4.5	<sup>R</sup> 6.9 8.1	(s)	H 0.1 0.1	37.7 38.0	<sup>rt</sup> 75.1 78.0	<sup>H</sup> 73.1 75.8	<sup>H</sup> 148.2 153.8
2022	0.0	21.2	1.4	2.9	U. I	4.5	0.1	(s)	0.1	36.0	70.0	75.6	133.8

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

 <sup>&</sup>lt;sup>9</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 <sup>h</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

S

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, West Virginia

					Pet	roleum			Usalaa	Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thous	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	100	15	75	49	8	65	8	205	NA			NA	1,134			
1965 1970	104 84	15 22	111	61	9	66	12	260 229	NA			NA	1,620 2,238			
1970	167	22 25	92 213	58 72	14 9	56 59	9	363	NA NA			NA NA	2,238			
1980	123 63	25 22 17	262 674	87 49	37	110	5	500	NA			NA	3,658			
1985 1990	143	21	526	49 91	129 46	307 330	5 65	1,164 1,058	NA 0			NA 0	4,462 5,085			
1995	57	26	357	91	37	20	0	504	0			Ö	5,944			
2000 2005	193 74	26 25	360 230	164 119	73 63	19 28	0	616 441	0			0	6,872 7,452			
2006	22 59	25 23 23 25	164	183	41	29	Ö	417	Ö			Ö	7,377			
2007 2008	59	23 25	162 137	160 209	25 13	30 29	0	376 387	0			0	7,769 7,716			
2009	Ö	24	270	203	9	27	Ö	509	Ö			Ö	7,694			
2010 2011	0	25 24	223 416	216 206	8	27 28	0	472 653	0			0	7,962 7,768			
2012	ő	23	378	207	Ĭ	25	Ö	611	0		==	i	7,763			==
2013	0	23 24 24	384 436	304 180	3	26 25	(s)	718	0			1	7,794			
2014 2015	0	23	461	157	4	364	0	644 986	0			i	7,876 7,801			
2016	0	23 23 22 25	415	173	2	376	0	966	0			1	7,826			
2017 2018	0	22 25	362 429	189 209	2	366 372	0	919 1,013	0			2	7,549 7,774			
2019	Ö	24	451	409	4	374	Ō	1,239	Ö			4	7,567			
2020 2021	0	21 23	385 381	207 259	4 3	374 378	0	970 R 1,021	0			5 6	6,956 7,156			
2022	ő	24	392	298	3	389	ŏ	1,081	ŏ			9	7,275			
								Tri	llion Btu							
1960	2.5 2.6	16.0	0.4	0.2	(s) 0.1	0.3	(s) 0.1	1.1	NA	0.2	NA	NA	3.9 5.5	23.6	R 7.8	R 31.4
1965 1970	2.6	15.6 22.3	0.6	0.2 0.2	0.1 0.1	0.3 0.3	0.1 0.1	1.4 1.2	NA NA	0.1 0.1	NA NA	NA NA	5.5 7.6	25.1 33.3	R 10.9 R 15.6	R 36.0 R 48.9
1975	2.0 4.0	25.7	0.5 1.2 1.5	0.3	0.1	0.3	0.1	1.9	NA	0.1	NA	NA	9.8	41.5	R 19.9 R 26.6	R 61.4
1980	3.0	22.7 18.4	1.5 3.9	0.3 0.2	0.2	0.6 1.6	(s)	2.7 6.5	NA NA	0.2 0.2	NA NA	NA NA	12.5	41.0 41.9	H 26.6	R 67.5 R 72.8
1985 1990	1.6 3.6	22.9	3.1	0.2	0.7 0.3	1.7	(s) 0.4	5.8	0.0	0.2	0.0	0.0	15.2 17.4	50.0	R 30.9 R 32.3 R 39.5	R 82 3
1995	1.4	27.5	2.1	0.3	0.2	0.1	0.0	2.7	0.0	0.6	0.0	0.0	20.3	52.5	R 39.5 R 45.4	H 92.0
2000 2005	5.0 1.8	28.0 26.8	2.1 1.3	0.6 0.5	0.4 0.4	0.1 0.1	0.0 0.0	3.2 2.3	0.0 0.0	0.6 1.5	(s)	0.0 0.0	23.4 25.4	60.2 57.8	R 49.4	R 105.6 R 107.3
2006	0.6	26.3	1.0	0.7	0.2	0.1	0.0	2.0	0.0	1.4	(s)	0.0	25.2	55.4	Raga	R 104.9
2007 2008	1.5 0.0	24.3 27.2	0.9 0.8	0.6 0.8	0.1 0.1	0.2 0.1	0.0 0.0	1.8 1.8	0.0 0.0	1.5 1.6	(s)	0.0 0.0	26.5 26.3	55.6 56.9	R 52.7 R 52.5 R 53.2 R 53.8	R 108.4 R 109.4
2009	0.0	25.7	1.6	0.8	0.1	0.1	0.0	2.5	0.0	1.6 2.5	(s)	0.0	26.3	57.0	R 53.2	R 109.4 R 110.2
2010 2011	0.0 0.0	26.8 26.1	1.3	0.8 0.8	(s)	0.1 0.1	0.0 0.0	2.3 3.3	0.0 0.0	2.5	(s)	0.0 (s)	27.2 26.5	58.8 58.4	H 53.8 R 51 o	R 112.5 R 110.3
2012	0.0	24.5	2.4 2.2	0.8	(s) (s)	0.1	0.0	3.1	0.0	2.4 2.1	(s)	(s)	26.5	56.2	R 51.9 R 52.3 R 52.0	R 108.4
2013 2014	0.0	26.1 26.3	2.2 2.5	1.2 0.7	(s)	0.1 0.1	(s) 0.0	3.5 3.3	0.0	2.4 2.5	(s)	(s)	26.6 26.9	58.7 59.1	R 52.0 R 52.4	R 110.7 R 111.5
2014	0.0	25.3 25.3	2.5 2.7	0.7	(S) (S)	1.8	0.0	5.3 5.1	0.0 0.0	2.5 1.4	(S) (S)	(S) (S)	26.9 26.6	59.1 58.5	R 53 4	R 111.8
2016	0.0	24.9	2.4	0.7	(s)	1.9	0.0	5.0	0.0	1.5	(s)	(s)	26.7	58.1	R 52 4	R 110 6
2017 2018	0.0 0.0	24.3 27.4	2.1 2.5	0.7 0.8	(S) (S)	1.8 1.9	0.0 0.0	4.7 5.2	0.0 0.0	1.5 1.5	(s) (s)	(S) (S)	25.8 26.5	56.2 60.5	R 49.6 R 52.2	R 105.8 R 112.7
2019	0.0	25.6	2.6	1.6	(s)	1.9	0.0	6.1	0.0	1.4	(s)	(s)	25.8	58.9	R 51.0 R 46.5	R 109.9
2020 2021	0.0 0.0	23.4 R 24.7	2.2 2.2	0.8 1.0	(s) (s)	1.9 1.9	0.0 0.0	4.9 5.1	0.0 0.0	1.4 1.6	(s) (s)	(s) R (s)	23.7 24.4	R 53.5 R 55.8	н 46.5 R 47.3	R 100.0 R 103.2
2022	0.0	25.7	2.3	1.1	(s)	2.0	0.0	5.4	0.0	1.5	(s)	(s)	24.8	57.5	49.5	107.0
a Incl	udos supplomo	ental gaseous fue	le that are comm	ninglad with n	atural dae				other feed fo	uole from which	thou are mostly	derived, but should	t he counted only	onco in End He	o and Total For 1	981 through 1992.

a Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, West Virginia

					Petro	leum				Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousan	d barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total <sup>f,k</sup>
1960 1965	7,802	76	452 890	290 627	204 155	1,437 2,080	6,101	8,485	540 493				NA	5,915			
1965	10.747	81	890	627	155	2,080	5,353	9,106	493				NA				
1970 1975	10,279 8,424	93 68	1,087 1,533	907 1,095	114 78	1,621 1,787	4,340 6,180	8,070 10,672	558 595				NA NA				==
1980	6 284	59	3,585	2,955	76 81	1,767	4,428	12,508	690				NA NA	10,567		==	
1985 1990	3,551 4,845	45 58	2,119	871	229 249	964 1,203	3,418 4,018	7,601 9,746	690				NA	9,673			
1990	4,845	58	3,173	1,103	249	1,203	4,018	9,746	610				0	10,469			
1995	3,768	60	3,315	1,443	194	197	3,233	8,381	556				0				
2000 2005	3,051 2,351	57 40	2,937 4,267	692 239	200 393	293 440	3,216 5,350	7,338 10,689	453 556				0	11,083 11,312			
2005	2 200	41	5,201	418	424	336	5,330 5,584	11,964	524				0				
2007	2,586 2,493		5,298	261	349	999	5,584 5,505 5,991	12,413	449				0	14,661			
2008	2,493	42 38	6,031	228	283	999 606	5,991	13.139	427				Ö	14,738			
2009	1,848 2,491	36	4,855	136	278	86 39	2.428	7,783 9,922	619				0				
2010	2,491	38	4,986	2,690	194 191	39	2,012	9,922	498				0				
2011 2012	2,475	42 50	4,877	2,686 2,700	191	45	2,278 2,114	10,076 9,899	559 547				(s) (s)	11,720			
2013	1,893 1,757	50 59 77	4,664 5,139	2,724	198	231 166	2,035	10,263	659		==	==	(s)	11,856 12,021			
2014	1.678	77	5,131	2,762	158	72	1.901	10.024	529				(s)	12.829			
2015	1,526	84 95	3,060	2,674	282	99	2,281	8,397	553				(s)				
2016	1,100	95	1,770	2,664	285	55	R 2,512	R 7,286	496				(s)				
2017 2018	932 1,010	109 122	2,887 3,410	2,648 2,595	287 284	0	R 1,844 R 2,039 R 2,240	R 7,666	534 688				(s)	13,586 14,193			
2018	1,010	132	3,410	2,595	285	17	R 2 240	R 8,332 R 8,780	563				(S)				
2020	960	R 148	2,122	2,617	283	4	R 2,125 R 2,146	H 7.150	565				(s)	14,243			
2021	1,130	H 155	2,915	2,741	263	7	R 2,146	H 8,072	516				(s)	14,571			
2022	414	164	2,947	2,847	268	7	2,149	8,217	526				1	14,574			
									Trillion Btu	ı							
1960	204.4 280.0	78.4	2.6 5.2	1.1	1.1	9.0	36.3 32.2	50.1	R 1.8 R 1.7	4.9	NA	NA	NA	20.2	R 359.8 R 455.0	R 40.7	R 400.5
1965	280.0	87.1	5.2	2.4	0.8	13.1	32.2	53.6	H 1.7	5.4	NA	NA	NA	27.2	H 455.0	H 53 6	H 508 6
1970	260.2	95.7	6.3	3.3	0.6	10.2	26.2	46.7	R 1.9 R 2.0	4.9 5.7	NA	NA	NA		R 441.5 R 383.2	R 65.9 R 63.4	R 507.4 R 446.6
1975 1980	212.5 162.4	70.5 61.4	8.9 20.9	3.9 10.4	0.4 0.4	11.2 9.2	36.9 26.5	61.4 67.4	R 2.4	5.7 4.2	NA NA	NA NA	NA NA	31.1 36.1	R 333.8	B 76.7	R 410.5
1985	91.0	48.4	12.3	3.0	1.2	6.1	20.5	43.1	R 2.4 R 2.1	4.9	0.0	NA.	NA NA	33.0 35.7	R 222 6	R 67 1	R 280 7
1990	124.3	61.7	18.5	3.8	1.3	7.6	24.3	55.5	R 2.1	1.4	0.0	0.0	0.0	35.7	R 280 7	R 66.5	R 347 1
1995	97.4	64.0	19.3	5.0	1.0	1.2	19.7	46.2	R 1.9	1.8	0.0	0.0	0.0	37.1	R 248.4 R 224.7 R 206.4	R 72.2 R 73.2 R 75.1	R 320.6
2000 2005	81.1 59.6	60.7 43.0	17.1 24.8	2.4 0.8	1.0 2.0	1.8 2.8	19.8 31.4	42.2 61.8	R 1.5 R 1.9	1.4 1.5	0.0 0.0	0.0 0.0	0.0		n 224.7	n 73.2	R 297.9 R 281.5
2005	59.6 55.9	45.8	30.2	1.4	2.0	2.0	33.0	68.9	R 1.8	1.3	0.0	0.0	0.0		R 221.2	R 93.2	R 314.4
2007	55.9 65.8	45.3	30.6	0.9	1.8	2.1 6.3	32.5	72.1	R 1 =	1.3 1.3	(s) (s) (s) 0.0	0.0	0.0		R 226 1	R 99 5	R 335 6
2008	63.8	41.3	34.9	0.8	1.4	3.8	35.9	76.8	R15	1.3	(s)	0.0	0.0	50.3	R 234.9 R 173.3 R 201.1	R 100 4	R 335 2
2009	47.4	39.5	28.0	0.4	1.4	0.5 0.2	15.1 12.8	45.6	R 2.1 R 1.7	1.2 1.7	(s)	0.0	0.0		H 173.3	R 76.0 R 78.5	R 249.3 R 279.6
2010	63.8 63.3	41.1 45.7	28.8 28.1	10.3 10.3	1.0 1.0	0.2	12.8	53.1 54.2	R 1.7 R 1.9	1.7	0.0	0.0	0.0		R 201.1	R 78.5 R 78.3	R 279.6 R 284.6
2011 2012	50.7	45.7 54.4	26.9	10.3	1.0	0.3 1.5	14.5 13.5	53.2	R 1.9	1.1 1.1	0.0	0.0	(s)	40.5	R 200.3	R 79.8	R 281.5
2012	46.6	63.4	29.6	10.4	1.0	1.0	12.8	54.9	R 2 2	1.1	0.0	0.0	(s)		R 209 4	R 80 2	R 289 6
2014	44.8	84.1	29.6	10.6	0.8	0.5	11.9	53.3	R 1.9 R 2.2 R 1.8	1.1	0.0	0.0	(s)	43.8	R 201.7 R 209.4 R 228.9 R 225.4 R 220.4	R 85 4	<sup>n</sup> 314.3
2015	41.0	92.4	17.6	10.3	1.4	0.5 0.6	14.4 R 16.1	44.4 _ 38.2	H 1.9	1.1	0.0	0.0	(s)	44.6	R 225.4	H 89.4	H 314.8
2016	30.6	104.8	10.2	10.2	1.4	0.3	H 16.1	38.2	R 1.7	1.1	0.0	0.0	(s)		H 220.4	R 86.3	R 306.7
2017	26.3	118.6 132.8	16.6	10.2 10.0	1.5 1.4	0.0	R 11.6 R 12.9	R 39.9 R 44.0	R 1.8 R 2.3	1.0 1.1	0.0	0.0		46.4 48.4	R 233.9 R 257.0	R 89.2 R 95.3	R 323.2 R 352.3
2018 2019	28.3 28.2	132.8	19.6 20.8	10.0	1.4	(s) 0.1	R 14.3	R 46 7	Ria	11	0.0 0.0	0.0 0.0	(S) (S)		R 271.3	R 95.3	R 369.1
2020	26.8	R 161.2	12.2	10.1	1.4		R 13.5	R 37.2	R 1.9	1.1	0.0	0.0	(s)	48.6	R 276.9	R 95.2	R 372.1
2021	31.0	R 168.7	16.8	10.5	1.3	(s) (s)	R 13.5 R 13.7	R 37.2 R 42.4	H 1.8	1.2	0.0	0.0	(s)	48.6 49.7	R 276.9 R 294.8	R 96.4	R 391.2
2022	11.2	177.9	17.0	10.9	1.4	(s)	13.7	43.0	1.8	1.1	0.0	0.0	(s)	49.7	284.7	99.2	383.9
													,				

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, West Virginia

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	energy losses i	Total <sup>g,h</sup>
1960	134 35	8	119	1,742	2	169 130 290 242 353	199	11,340	3	13,573	0			
1965 1970	35 16	18 8	201	1,530 2,485	4 10	130	198 185	12,541 15,660	0	14,603	0			
1975 1980	1	14 13	78 58 65	3,589 4,846	14	242	185 239 250	19,176	0	14,603 18,713 23,318 24,728	0			
1980 1985	0	13 18	65	4,846	14	353	250 228	19,199 17,977	0	24,728	0			
1990	0	9	39 36 27	6,736 5,850 6,781	22 19 12	235 273 174 189 238 231 236 227 198 234 252	256	19.063	(s) 0	25,236 25,497	0			
1995	0	26	27	6,781	12	174	256 244	20,678	0	27.916	0			
2000 2005	0	33 20	20 89	8,269 9,178	2 13	189 238	261 220	19,205 19,783	0	27,945 29,522	0			
2006 2007	ő	19 21	89 37 36	8,970	18 11	231	214 221	19,873 19,839	ő	29,343 28,974	4			
2007	0	21	36	8,970 8,631 7,709	11	236	221	19,839	0	28,974	4			
2008 2009	0	18 22	21 30	6 929	23 15 6	198	206 185	18,257 19,736	0	26,442 27,094	4			
2010	Ö	22 22 21 32	24 23 22	7.479	6	234	169	20,240	Ö	28.152	4			
2011 2012	0	21	23	7,348 7,344	5	252	157 145	19,264 18,835	0	27,048 26,595	4			
2012	0	30	19	7,344	5	209	147 147	18.567	0	26,102	4			
2013 2014	0	30 29 29	19 13 12	7,156 6,658 7,837	5	209 197	147	18,567 19,271	0	26,102 26,292	0			
2015 2016	0	29	12 9	7,837 10,675	7	219	170 R 104	18,622 19,030	0	26,867 B 30 142	0			
2017	0	19	11	9,633	13	226 228 196 208	R 194 R 164	18,453	0	R 30,142 R 28,503 R 32,171	0			
2018	0	19	14	12,427	18	196	R 185 R 156	19,330	0	R 32,171	0			
2019 2020	0	R 30	15	10,256 9,442	20 9	208 159	R 134	19,203 16,181	0	R 29,858 R 25,937	0			
2021 2022	Ŏ	20 19 19 25 R 30 34 33	15 12 13 14	R 11,063	9	159 171 174	R 134 R 158	16,181 18,374	Ö	R 25,937 R 29,873	Ö			
2022	0	33	14	11,107	11	174	166	17,661	0	29,203	0			
								Ilion Btu						
1960	3.4	8.7 19.3	0.6	10.1	(s) (s) (s)	0.9 0.7	1.2 1.2 1.1 1.5 1.5	59.6	(s) 0.0	72.5 77.7 99.9 124.8	0.0 0.0	84.6 97.9	0.0 0.0	84.6
1965 1970 1975	0.9 0.4	8.1	1.0 0.4	8.9 14.5 20.9	(S)	1.6	1.2	65.9 82.3	(s)	99.9	0.0	108.5	0.0	97.9 108.5 139.4
1975	(s) 0.0	14.6	0.3	20.9	0.1	1.3	1.5	100.7	(s) 0.0	124.8	0.0	108.5 139.4	0.0 0.0	139.4
1980 1985	0.0 0.0	13.6 19.0	0.3 0.2	28.2 39.2	0.1 0.1	2.0 1.3	1.5	100.9 94.4	0.0	133.0	0.0 0.0	146.6 155.6	0.0 0.0	146.6 155.6
1990 1995	0.0	9.3 28.1	0.2	34.1 39.5	0.1	1.5	1.4 1.6 1.5 1.6	100.1	(s) 0.0 0.0	136.6 137.5 149.7	0.0	146.9	0.0	146.9
1995	0.0	28.1	0.1	39.5	(s)	1.5 1.0	1.5	107.6	0.0	149.7	0.0	177.8	0.0	177.8
2000	0.0	35.0 21.0 21.2	0.1	48.1 53.4	(s)	1.1	1.6	99.9 102.7	0.0 0.0	150.8 159.3	0.0 (s)	185.8 180.4	0.0	185.8 180.4
2005 2006	0.0 0.0	21.2	0.5 0.2	53.4 52.1	(s) 0.1	1.4 1.3	1.3 1.3 1.3	102.7 103.0	0.0	159.3 158.0	(s)	180.4 179.2	(s) (s)	180.4 179.3
2007 2008	0.0 0.0	22.4 19.6	0.2 0.1	49.9 44.6	(s) 0.1	1.3 1.3	1.3 1.2	102.0 93.2	0.0 0.0	154.8 140.5	(s)	177.4 160.2	(s)	177.4 160.3
2009 2010	0.0	24.0	0.1	40.0	0.1	1.3	1.1	100.5	0.0	140.5	(S) (S)	166.9	(s)	166.9 171.5
2010	0.0 0.0	24.0 23.2	0.1	40.0 43.2	(s)	1.1 1.3	1.0	100.5 102.6	0.0 0.0	142.9 148.2	(s)	166.9 171.5	(s)	171.5
2011	0.0 0.0	23.3	0.1 0.1	42.4 42.4	(s)	1.4 1.4 1.2	0.9	97.5 95.3	0.0 0.0	142.4 140.1	(s)	165.7 174.6	(s) (s)	165.7 174.6
2012 2013	0.0	34.5 31.9 32.0 32.0	0.1	42.4 41.2	(s) (s)	1.2	0.9 0.9	95.3 93.9 97.5 94.2	0.0	140.1 137.4	(S)	169.2	(s)	169.3 169.9
2014	0.0	32.0	0.1	38.4	(s) (s)	1.1 1.2	0.9	97.5	0.0	138.0	0.0	169.9	0.0	169.9
2015 2016	0.0 0.0	3≥.0 22.4	0.1 (s)	45.2 61.5	(\$) (s)	1.2	1.0 1.2	94.2 96.2	0.0 0.0	141.7 160.2	0.0 0.0	173.7 182.5	0.0 0.0	173.7 182.5
2016 2017	0.0	22.4 20.9	(s) 0.1	61.5 55.5	(s) 0.1	1.3 1.3	1.2 1.0	96.2 93.2	0.0 0.0	151.1	0.0	182.5 172.0	0.0	182.5 172.0
2018	0.0 0.0	21.1	0.1 0.1	71.6	0.1 0.1	1.1	1.1 0.9	97.7	0.0	171.6 R 158.4	0.0 0.0	192.7	0.0 0.0	1927
2019 2020 2021	0.0	R 32.3	0.1	59.1 54.3 R 63.8	(s)	1.2 0.9 1.0	0.8	97.0 81.7 92.8	0.0 0.0 0.0	137.9	0.0	185.4 R 170.2	0.0	R 170.2
2021	0.0 0.0	27.1 R 32.3 R 36.8 36.0	0.1	R 63.8	(s) (s) (s)	1.0	0.8 R 1.0	92.8	0.0	137.9 R 159.0	0.0	R 195.8 191.7	0.0	185.4 R 170.2 R 195.8 191.7
2022	0.0	36.0	0.1	64.0	(S)	1.0	1.0	89.2	0.0	155.7	0.0	191.7	0.0	191.7

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, West Virginia

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d	Waad	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million ki	lowatthours		Total <sup>f,i</sup>
60	5,879	1	(s)	0	33 61 430	33	0	398		0	NA	NA	0	_
)65 )70	8,025 14,889	1	(s) (s) 3	Ö	61	62 433 722 683 369	Ö	336 437		Ö	NA	NA	Ö	_
70	14,889	1	`3	0	430	433	0	437		0	NA	NA	0	-
75 80	25,805 28,499	(s)	14	0	708 0	722	0	467		0	NA	NA	0	-
80	28,499	(s)	683	0	0	683	0	424		0	NA	NA	0	-
85	31.367	(s)	369	0	0	369	0	368		0	0	0	0	-
90 95	29,873 31,549	(s)	368 338	0	0	368	0	685 637		0	0	0	0	-
95	31 549	۱۶	338	ň	ŏ	338	ň	637		ŏ	ň	Ŏ	Ŏ	-
00	36,625	1	448	0	Ô	448	ň	698		Ď	ň	Ŏ	Ď	-
05 05	37.875	,	3/10	ň	ň	3/10	ň	892		ň	ň	154	ň	-
05 06	37,875 37,863	1	448 349 237 324	0	0	227	0	1,048		0	0	174	0	_
07	38,056	4	324	0	0	324	0	806		0	0	168	0	-
07	37,706	4	224	0	0	024	0	821		0	0	392	0	
00	37,700	2	23/	Û	U	23/	Ů				0	392	Ü	
09	29,255 32,752	]	237 304 271 327 250	0	0	368 338 448 349 237 324 237 304 271 327 250	0	1,027		0	0	742	0	
10	32,752	1	2/1	0	0	2/1	0	869		0	0	939	0	-
11	31,917	3	327	0	0	327	0	894		0	0	1,103 1,286	0	-
12	29,571	2	250	0	0	250	0	884		0	0	1,286	0	
13 14	30,093 31,883	3	269 283	0	0	269 283	0	1,080 713		0	0	1,387 1,451	0	-
14	31,883	7	283	0	0	283	0	713		0	0	1,451	0	
15	28 223	13	247	0	0	247	0	832		0	0	1,376 1,432 1,682	0	
16	29,549 27,988	10	215 208	0	0	215 208	0	1,143		0	0	1,432	0	
17	27.988	10	208	0	0	208	0	1,125		0	0	1.682	(s)	
18	25.811	11	289	Ö	Ö	289	Õ	1,160		0	Ō	1 770	9	
19	25,811 23,897	16	230	Ō	Ō	230	Ō	1,143		Ō	Ō	1,770 1,631	Ō	-
20	20,590	21	289 230 257	Ö	Ō	289 230 257	Ô	1,027		0	Ō	1,898	Ō	
121	24.250	20	301	ŏ	ŏ	301	ő	1 100		ő	ŏ	1,600	ő	-
)21 )22	24,250 21,176	20 17	301 287	ŏ	ŏ	301 287	Õ	1,188 1,122		ŏ	ő	1,624 2,007	Õ	
	21,170	.,	201				Trillion Btu	1,144				2,007		
								Р.,						
960	140.6	1.0	(s) (s)	0.0	0.2 0.4	0.2 0.4	0.0	R 1.4	0.0	0.0	NA	NA	0.0	R 143
965	190.5	1.0	(s)	0.0	0.4	0.4	0.0	R 1.1 R 1.5 R 1.6	0.0	0.0	NA	NA	0.0	R 193 R 352
70	347.2	0.7	(s) 0.1 4.0 2.1	0.0	2.7 4.4 0.0	2.7	0.0	H 1.5	(s) 0.0	0.0	NA	NA	0.0	H 35
75 80 85	599.2	0.2	0.1	0.0	4.4	4.5	0.0	<u>년</u> 1.6	0.0	0.0	NA	NA	0.0	H 60
80	691.7	0.1	4.0	0.0	0.0	4.0	0.0 0.0	R 1.4 R 1.3	0.0 0.0	0.0	NA	NA	0.0 0.0	H 69
85	778.7	0.1	2.1	0.0	0.0	2.1	0.0	H 1.3	0.0	0.0	0.0	0.0	0.0	H 78
90	744.8	0.1	2.1	0.0	0.0	2.1	0.0	R 2.3	0.0	0.0	0.0	0.0	0.0	R 74
90 95	744.8 772.4	0.1 0.7	2.1 2.0	0.0	0.0 0.0	2.1 2.0	0.0	R 2.2	0.0 0.0	0.0	0.0	0.0	0.0 0.0	R 77
00	891.2	0.5	2.6	0.0	0.0	2.6	0.0	R 2.4	0.1	0.0	0.0	0.0	0.0	R 89
00 05 06	898.0	2.4 3.8	2.6 2.0 1.4	0.0	0.0	2.6 2.0 1.4	0.0	R 2.3 R 2.2 R 2.4 R 3.0 R 3.6 R 2.7 R 2.8	(s)	0.0	0.0	0.0 R 0.5 R 0.6	0.0	R 60: R 69: R 78: R 74: R 77: R 89: R 90: R 90:
06	898.0 902.3	3.8	1.4	0.0	0.0 0.0	1.4	0.0 0.0	R 3.6	(s) 0.0	0.0	0.0	R 0.6	0.0 0.0	R 91
07	915.8	4.0	1.9 1.4 1.8 1.6 1.9	0.0	0.0	1.9	0.0	R 2 7	0.0	0.0	0.0	R 0.6 R 1.3 R 2.5 R 3.2 R 3.8 R 4.4 R 4.7	0.0	Raz
07 08	915.8 891.9	4.0 2.0	1.3	0.0	0.0	1.4	0.0	Roa	0.0 0.0	0.0	0.0	R 1.3	0.0 0.0	R 92 R 89 R 70 R 79 R 77 R 71 R 73 R 73
09	695.5	1.2	1.7	0.0	0.0	1.8	0.0	R 3 5	0.0	0.0	0.0	R 2 5	0.0	R 70
10	78/1 2	1.2	1.0	0.0	0.0	1.6	0.0	R 3.5 R 3.0 R 3.1	0.0	0.0	0.0	R 3 2	0.0	R 70
10 11	784.3 759.3	1.6 2.7	1.0	0.0	0.0	1.9	0.0	R 2.1	0.0 0.1	0.0	0.0	R 2.0	0.0	79 B 77
10	708.0	2.7	1.9				0.0	H 3.1	0.1			R 4 4	0.0	R 74
12	706.0 724.5	2.5 3.0	1.4 1.6	0.0	0.0	1.4	0.0	R 3.0 R 3.7 R 2.4 R 2.8	0.1	0.0	0.0	" 4.4 B 4 7	0.0	11 /1 B 70
13	/24.5	3.0	1.6	0.0	0.0	1.6	0.0	3.7	(s) 0.1	0.0	0.0	1.4.7 P.5.0	0.0	11 /3
14	771.7	7.0	1.6	0.0	0.0	1.6	0.0	n 2.4	0.1	0.0	0.0	R 5.0 R 4.7	0.0	P 78
15	689.9	14.1	1.6 1.4 1.2	0.0	0.0	1.4	0.0	n 2.8	0.1	0.0	0.0	n 4.7	0.0	<sup>rt</sup> 71
10	721.3	10.9	1.2	0.0	0.0	1.2	0.0	R 3.9 R 3.8 R 4.0	0.0	0.0	0.0	R 4.9 R 5.7 R 6.0	0.0	H 74
10	684.2	11.2 11.5	1.2	0.0	0.0	1.2 1.7	0.0	H 3.8	0.0	0.0	0.0	H 5.7	(s) (s)	H 70
17		11.5	17	0.0	0.0	1.7	0.0	H 4.0	0.0	0.0	0.0	H 6.0		H 65
17 18	633.4	11.3	1.7											
17 18 19	633.4 593.5	17.5	1.3	0.0	0.0	1.3	0.0	R 3.9	0.0	0.0	0.0	R 5.6	0.0	H 62
17 18 19 20	633.4 593.5 512.9	17.5 22.4	1.3 1.5		0.0 0.0	1.3	0.0	R 3.9 R 3.5	0.0 (s)	0.0 0.0	0.0	R 5.6 R 6.5	0.0	H 62 R 54
16 17 18 19 20 21	633.4 593.5 512.9 602.5 525.5	17.5 22.4 20.9 17.9	1.2 1.7 1.3 1.5 1.7	0.0	0.0	1.3 1.5 1.7 1.7	0.0 0.0 0.0 0.0	R 3.9 R 3.5 R 4.1 3.8	0.0 (s) (s) (s)		0.0 0.0 0.0 0.0	R 5.6 R 6.5 R 5.5 6.8	0.0 0.0 0.0 0.0	R 713 R 742 R 706 R 656 R 621 R 546 R 634

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 <sup>1</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 <sup>2</sup> Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Wisconsin

						Petroleum				]				
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	Hydro- electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				Mi	illion kilowatthour	s	Thousan	d barrels
1960	12,735	91	21,750	4,258	245	33,125	4.394	7,640	71,412	0	2,399	0	NA	NA
1965	14,528	200	23,508	5,246	629	36,295	4,394 3,209	6,769	75,656	Ö	2,131	Ö	NA	NA
1970 1971	16,898 15,044	338 348	25,841 26,538	7,679 7,935	1,603 1,872	45,483 46,818	2,936 2,155	10,420 9,525	93,962 94,842	157 3,469	1,904 2,230	0	NA NA	NA NA
1972	14,709	321	26,833	7,935 8,769	2.014	49.625	2.411	8,956	98 609	3,294	2,413	0	NA	NA
1973 1974	13,636 12,632	368 381	27,430 26,913	8,735 8,472	2,283 2,146	51,239 50,702	2,520 1,881	9,624 7,788	101,832 97,901	5,952 8,256	2,444 2,020	0	NA NA	NA NA
1975 1976	12,733	365 315	26,561 30,155	8,448	2,206 2,243	51.548	2,106 3,211	6,710	97,579 105,851	10,293	2,037	Õ	NA	NA
1976 1977	13,991 14,297	315 349	30,155 30.646	9,470 10,705	2,243 2.291	53,642 54,934	3,211 3,641	7,130 6.474	105,851 108,692	10,722 10,945	1,652 1,821	0	NA NA	NA NA
1978	13,980	371	32,663	9,106	2.370	56,790	3,663	7,545	112 137	11.718	1,821 2,371	ŏ	NA	NA
1979 1980	15,156 15,644	368 352	32,137 22,495	6,888 6,036	2,591 2,397	53,781 49,606	2,478 1,772	6,326 5,829	104,200 88,135 81,772	10,403 9,911	2,294 2,115	0	NA NA	NA NA
1981	16.186	325 312	20,968	4.932	2.282	48.233	866	4,492	81,772	9,719	2.142	0	0	NA
1982 1983	15,794 17,407	312 299	20,511 20,465	5,914 5,950	2,097 1,843	46,233 46,837	2,132 793	4,508 4,613	81,395 80,502	10,268 9,299	2,422 2,556	0	6 2	NA NA
1984	17,407	305	23,301	5,950 5,540 5,377	1,605	46,648	664 402	4,356	82,113	10,745	2,338 2,338	(s)	4	NA NA
1985	18,034	308	23,154	5,377	1,663	46,557	402	4,270	81,424	10,979	2.546	(s)	28	NA
1986 1987	18,743 19,652	279 279	22,396 22,348	5,361 5,632	1,562 1,448	47,421 47,490	1,044 1,180	4,357 4,948	82,141 83,046	11,199 11,311	2,419 1,576	(S) (S)	33 25	NA NA
1988 1989	20,038	317	24.829	6,029 6,929	1,344 1,343	49 522	1,095 1,023	5.903	88,722 90,380	11,464	1,488 1,476	(s)	49	NA
1989 1990	19,947 20,122	331 309	25,621 24,192	6,929 6,664	1,343 1,424	49,130 48,989	1,023 1,109	6,335 6.420	90,380 88,798	10,848 11,226	1,476 2,014	(s)	138 196	NA NA
1991	20,659	309 332	22,873	8,471	1,352	49,898	846	6,145	89,586	10,991	2,014 2,517	(s)	489	NA
1992 1993	20,096 20,922	332 349	22,310 24,061	7,780 8,626	1,721 1,912	50,285 51,634	844 1,247	6,131 6,727	89,071 94,208	11,207 11,465	2,402 2,487	0	425 356	NA NA
1993	21,813	356	24,061	8.957	1.975	53,048	1.268	7,213	94,206	11,516	2.228	0	392	NA
1995	23,151	381	23,471	8,753	2,044	55,053	829	7,812	96,780 97,962	10,970	2,378	0	861	NA
1996 1997	24,076 25,487	403 401	24,908 24,999	11,139 9,935	1,530 1,950	56,313 55,696	1,020 1,065	8,554 9,726	103,464 103,371	10,121 3,916	2,696 2,483	0	1,362 1,594	NA NA
1998	24,740	368	25,199	9,935 8,461	1,866	58,740	923	10,843	106.031	9,397	2,483 1,747	Ö	824	NA
1999 2000	25,276 25,928	381 394	28,622 29,301	11,009 11,129	3,407 3,139	58,976 58,194	1,011 1,110	11,139 10,121	114,163 112,993	11,495 11,512	1,985 1,986	0	697 781	NA NA
2000	25,921	360	31 694	10,094 12,304	2,590 2,293	58.870	918	9 792	112,993 113,958 115,257	11,507	2,056 2,515	72 46	1 993	5
2002	25,174	385	30,051	12,304	2,293	60,351	918 1,050	9,208	115,257	12,449	2,515	46 98	3,188	5 8
2003 2004	26,197 26,696	395 383	26,357 28,240	10,658 11,556	1,336 2,641	60,902 61,130	930 1,154	10,336 10,727	110,519 115,448	12,215 11,888	1,843 1,981	98 104	2,641 2,512	7 14
2005	26,727	410	27,309	11.337	2.858	61.367	1.468	10.442	114.781	9.921	1.740	93	4.090	46
2006 2007	25,488 25,597	372 398	28,387 28,085	10,155 10,363	2,748 2,227	60,526 62,275	851 800	10,494 9,939	113,162 113,691	12,234 12,910	1,679 1,516	101 109	3,718 4,615	14 46 132 179
2008	26,586	409 387	27,415	9,565	2,638	60,212	722 245	9,104	109,656	12,155	1,616 1,394	487	5,653	154 163
2009 2010	23,829 25,516	387 373	23,317	8,861 8,483	2,493	60,551 61,638	245	7,697	103,165	12,683 13,281	1,394	1,052 1,088	5.808	163
2010	24,453	394	23,799 23,650	8.595	2,864 2,747	59,419	106 121	8,425 8,364	105,314 102,896	11,560	2,112 2,147	1.188	6,541 5,995	132 449
2012	20,701	403 443	24,310	7,215	2 203	59,044	101 68 50 81	7,055	99 928	14,300	1,530 1,979	1,558 1,558	5,909	453 715
2013 2014	25,109 22,713	443 463	24,094 26,521	9,463 10,190	2,216 2,208	58,846 61,973	68 50	7,884 8 126	102,571 109,068	11,675 9.447	1,979 2,472	1,558 1.618	6,016 6,335	/15 715
2015	22,793	463 458 482	26,521 25,982	9,270	2,208 2,274	62,532	81	8,126 7,351 R 7,134	107,490 R 105,707	10,008	2,341	1,589	6,516	715 620 880
2016 2017	19,875 21,853	482	24,911 24,716	8,447 8,247	2,363	62,710 61,991	142 167	<sup>R</sup> 7,134 R 7,600	H 105,707	10,151 9,649	2,795	1,515 1,641	6,498 6,452	880 730
2018	20,400	488 543	26,947	9,638	2,478 2,622	64,295	173	R 7,699 R 6,985	R 105,298 R 110,660	10,129	2,657 2,392	1,638	6,452 6,636	739 715 R 571
2019 2020	15,526	569 548	27,028	11.619	2,827 1,763	63,064 55,705	147	H 6 322	H 111 007	10,030 9,771	2,641 2,788	1,878 1,763	6,627 5,892	R 571
2020 2021	13,842 15,931	548 R 537	25,630 R 26,786	10,350 10,755	1,763 2,046	55,705 60,618	159 167	R 6,209 R 7,134	R 99,816 R 107,505	9,771 9,970	2,788 2,145	1,763 1,593	6.389	724 R 643
2022	12,912	595	26,826	10,755 10,773	2,014	61,398	171	6,798	107,980	10,077	1,991	1,816	6,524	644

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

<sup>C Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of</sup> data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Wisconsin (trillion Btu)

					Fossi	l fuels						Fossil fuels	
						Petroleum						(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	304.6	93.8	126.7	16.3	1.3	174.0	27.6	46.2	392.2 412.3 510.1 513.5 532.3 550.6 527.2	790.6	93.8	126.7	174.0
1960 1965	304.6 347.9	204.1	126.7 136.9	16.3 20.1	1.3 3.5	174.0 190.7 238.9 245.9	20.2	40.9	412.3	964.3	93.6 204.1 344.2 354.7 326.9 373.5 386.9	126.7 136.9	174.0 190.7
1970 1971	381.6	344.2 354.7	150.5 154.6	29.3 30.3	9.0	238.9	18.5 13.6	63.9	510.1	1,235.9 1,205.5	344.2	150.5 154.6	238.9 245.9
1971	337.3	354.7	154.6	30.3	10.6	245.9	13.6	58.6	513.5	1,205.5	354.7	154.6	245.9
1972 1973 1974	333.6	326.9 373.5 386.9	156.3	33.4 33.2 32.1	11.4	260.7 269.2 266.3	15.2 15.8 11.8	55.3	532.3	1,192.8	326.9	156.3	260.7
1973	310.7 278.6	3/3.5	159.8 156.8	33.2	12.9 12.1	269.2	15.8	59.8 48.0	550.6	1,234.8 1,192.7	3/3.5	159.8 156.8	269.2 266.3
1974	270.0 272.0	300.9 372.1	150.0	3∠. I 31 Ω	12.1	200.3 270.8	11.0	40.0 /1.3	527.2 524.3	1,192.7	300.9	150.0	200.3 270.8
1975 1976	272.0 304.0	372.1 320.5	154.7 175.7	31.8 35.5 39.5	12.5 12.7	281.8	13.2 20.2 22.9	41.3 44.2	524.3 570.0 582.5	1,168.5 1,194.5	320.5	154.7 175.7	270.8 281.8
1977	307.5	354 4	178.5	39.5	13.0	288.6	22.9	40.0	582.5	1,244.4	354.4	178.5	288.6
1978	296.1	375.3	190.3	33.9	13.4	298.3	23.0	47.0	605.9	1,277.2	375.3	190.3	298.3
1978 1979	296.1 321.1	372.3	190.3 187.2	33.9 25.5 22.4 18.4	14.6	270.8 281.8 288.6 298.3 282.5 260.6 253.4 242.9 246.0 245.0 244.6 249.1 249.5 260.1 258.1 257.3 262.1 264.1	23.0 15.6	39.4	605.9 564.8 474.9 439.9	1.258.1	372.1 320.5 354.4 375.3 372.3	190.3 187.2	288.6 298.3 282.5
1980 1981	327.3 327.3	354.7 327.5	131.0	22.4	13.5	260.6	11.1 5.4	36.2 27.7	474.9	1,156.9 1,094.7	354.7 327.5 315.8 301.8	131.0	260.6 253.4
1981	327.3	327.5	122.1	18.4	12.9	253.4	5.4	27.7	439.9	1,094.7	327.5	122.1	253.4
1982 1983	324.1 352.8	315.7 301.8	119.5 119.2	21.7 22.1	11.8 10.4	242.9	13.4 5.0 4.2 2.5 6.6 7.4 6.9	28.0 28.4	437.3 431.1	1,077.1 1,085.7	315.8	119.5 119.2	242.9 246.0
1984	363.4	307.5	119.2 125.7	20.7	10.4	246.0	5.U 4.2	26.4 26.4	431.1 441.0	1,111.9	301.0	119.2 135.7	240.0 245.0
1985	360.7	311.4	135.7 134.9 130.5 130.2 144.6 149.2	20.7 20.0 20.0	9.0 9.3 8.8	243.0	2.5	26. <del>4</del> 26.1	441.0 437.4 441.9 447.0 478.8 487.3 478.6 478.3	1,109.5	307.5 311.4	135.7 134.9 130.5 130.2	245.0 244.6 249.1 249.5 260.1
1985 1986 1987 1988	360.7 371.4	281.6	130.5	20.0	8.8	249.1	6.6	26.1 27.0	441.9	1,094.9	281.6	130.5	249.1
1987	386.6	281.6	130.2	21.1 22.6 26.1 25.0 31.7	8.1 7.5 7.5 8.0	249.5	7.4	30.7	447.0	1.115.1	281.6 281.6 319.7	130.2	249.5
1988	394.1	319.7	144.6	22.6	7.5	260.1	6.9	37.1	478.8	1,192.6	319.7	144.6	260.1
1989	389.9 394.5	332.7	149.2	26.1	7.5	258.1	6.4	39.9	487.3	1,210.0	332.7	149.2 140.9	258.1
1990	394.5	311.2	140.9 133.2	25.0	8.0	257.3	6.4 7.0 5.3 5.3 7.8 8.0 5.2	40.4	478.6	1,184.3	332.7 311.2 333.8 334.9 352.4	140.9	258.1 257.3 262.1
1991	405.6	333.8	133.2	31.7	7.6 9.7	262.1	5.3	38.4 38.1 41.8	478.3	1,217.8	333.8	133.2	262.1
1992 1993	395.0 403.3	334.9 352.4	130.0 140.2	29.2 32.3	9.7 10.8	264.1	5.3	38.1 41.0	476.4 501.0	1,206.3 1,256.7	334.9	130.0 140.2	264.1 269.4
1993	424.9	360.4	140.2	32.3	11.1	200.1	7.0 8.0	44.8	51/.0	1,230.7	360.4	141.5	209.4
1995	441.6	360.4 385.3	141.5 136.6	32.8	11.6	283.5	5.2	48.8	518.5	1,299.6 1,345.5	385.3	136.6	286.5
1994 1995 1996	454.6	408.1	145.0	33.6 32.8 41.9	8.7	288.7	6.4	53.0	514.3 518.5 543.6 545.5 565.4 607.4 600.1 603.7 601.0	1,406.3	360.4 385.3 408.1	136.6 145.0	276.6 286.5 293.4 289.9 305.6
1997 1998	486.6	405.0	145.5 146.6	37.3 32.0	11.1	284.4	6.7 5.8	60.6	545.5	1,437.1	405.0 372.1	145.5	289.9
1998	472.0	372.1	146.6	32.0	10.6	302.8	5.8	67.6	565.4	1,409.5	372.1	146.6	305.6
1999	480.7 499.2	385.1 397.6	166.6 170.5	41.2 41.3	19.3	304.4	6.4	69.6	607.4	1,473.3 1,496.9	385.1 397.6 363.0 388.0	166.6 170.5	306.8 302.7
2000	499.2	397.6	170.5	41.3	17.8	300.0	7.0	63.5	600.1	1,496.9	397.6	170.5	302.7
2001 2002	494.0 492.0	363.0 388.0	184.4 174.9	37.7	14.7 13.0	299.3	5.8	61.9 57.9	603.7	1,460.8 1,481.0	363.0	184.4 174.9	306.2 313.8
2002	488.2	397.9	174.9	37.7 45.8 40.0 42.9 42.1	7.6	275.2 283.5 284.4 302.8 304.4 300.0 299.3 302.7 307.3 308.9 304.4 300.9 304.2 287.8	7.0 5.8 6.6 5.8 7.3 9.2 5.4 5.0 4.5	65.8	579.9	1,466.0	397.9	153.4	316.5
2003 2004 2005	499.2	386.0	153.4 164.3 158.9	42.9	15.0	308.9	7.3	67.6	606.0	1 491 2	386.0	164.3	317.6
2005	499.2 522.5	386.0 415.6	158.9	42.1	15.0 16.2	304.4	9.2	67.6 65.8	606.0 596.6	1,491.2 1,534.7	386.0 415.6	164.3 158.9	317.6 318.6
2006 2007	462 7	376.6 403.9 415.1	164.7 162.4 158.5	37.6 38.4 36.2	15.6	300.9	5.4	65.7 62.0	589.9 584.6 558.5	1,429.1 1,453.7 1,454.3	376.6 403.9 415.1	164.7 162.4 158.5	313.8 320.2 307.4
2007	465.1 480.7	403.9	162.4	38.4	12.6 15.0	304.2	5.0	62.0	584.6	1,453.7	403.9	162.4	320.2
2008	480.7	415.1	158.5	36.2	15.0	287.8	4.5	56.5	558.5	1,454.3	415.1	158.5	307.4
2009 2010	425.9 458.4	392.5 376.6	133.6 136.6	33.3 32.6 33.0 27.7	14.1 16.2	288.1 289.6 280.0 278.4 276.9 291.5 293.6 294.4 290.8 301.8 295.5 260.9	1.5 0.7	47.9 52.7	518.5 528.5	1,337.0 1,363.6	392.5 376.6	134.7 137.4	308.2 312.3
2010 2011	458.4 447.4	376.6 399.2	136.6 134.5	32.6	16.2 15.6	289.6	0.7	52./	528.5 516.5	1,363.6	3/6.6	13/.4	312.3
2011	373.3	399.2 410.3	134.5	აა.0 27 7	12.5	∠ou.U 278 /	0.8 0.6	52.6 44.6		1,363.1 1,285.4	399.2 410.3	136.5 140.2	300.8 298.9
2012	454.6	454 1	135.0	36.3	12 6	276.4	0.4	49.2	501.8 510.5 543.2 534.1 524.1 523.1 R 548.7 547.5 R 493.2 R 532.5	1 419 1	454 1	138.9	290.9 297.8
2013 2014	417.1	479.4	148.9	39.1	12.5	291.5	0.3	50.8	543.2	1,439.7	479.4	152.8	297.8 313.5
2015	408.2	477.0	145.6	39.1 35.6	12.9	293.6	0.5	45.9	534.1	1.419.2	479.4 477.0	149 7	316.2
2016 2017	357.3 388.6	501.0 504.8	138.0 137.4	32.4 31.7	13.4	294.4	0.9 1.0	44.9 48.1	524.1	1,382.5 1,416.5	501.0 504.8	143.4 142.3	316.2 317.0 313.2
2017	388.6	504.8	137.4	31.7	14.0	290.8	1.0	_ 48.1	<sub>B</sub> 523.1	1,416.5	504.8	142.3	313.2
2018	362.1 280.1 249.3	565.3 592.5	150.3 151.1	37.0 44.6 39.8	14.9	301.8	1.1	R 43.6 R 39.3 R 38.8	<sup>n</sup> 548.7	R 1,476.1 R 1,420.1 R 1,314.3	565.3 592.5	155.2 155.7	324.9 318.6
2019	280.1	592.5	151.1	44.6	16.0	295.5	0.9 1.0	□ 39.3 B 20.0	547.5 B 402.0	T 1,420.1	592.5	155.7	318.6
2020	249.3 286.8	571.8 R 561.1	142.7 R 152.3	39.8 41.3	10.0 11.6	200.9	1.0	R 44.4	R 522 5	R 1,314.3	571.8 R 561.1	147.5 R 154.4	281.4 306.1
2021 2022	232.5	621.9	152.5	41.3	11.6	283.9 287.3	1.0	42.0	533.6	1,388.0	621.9	154.4	310.0
	202.0	321.5	102.0	71.7		207.0		12.0	000.0	1,000.0	021.0	104.7	510.0

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each

type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Wisconsin (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	mass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity k	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960 1965	0.0	R 8.2 R 7.3 R 6.5 R 7.6	39.2 39.4	NA	NA	NA	NA	39.2 39.4	0.0	NA	NA	R 47.3	R -5.7 R -7.4	0.0	R 832.2 R 1,003.6 R 1,255.8 R 1,257.5
1965 1970	0.0 1.7	H 7.3 R 6.5	39.4 38.3	NA NA	NA NA	NA NA	NA NA	39.4 38.3	0.0 0.0	NA NA	NA NA	R 46.7 R 44.8	R -7.4 R -26.7	0.0 0.0	H 1,003.6 H 1 255.8
1971	37.6	R 7.6	38 4	NA	NA	NA	NA	38.4	0.0	NA	NA	H 46 0	R -26.7 R -31.6	0.0	R 1,257.5
1972 1973	35.5 64.9	R 8.2 R 8.3 R 6.9	40.6 42.4 44.5	NA NA	NA NA	NA NA	NA NA	40.6 42.4	0.0 0.0	NA NA	NA NA	R 48.8 R 50.8	R -25.1 R -31.7 R -34.4 R -31.6	0.0 0.0	R 1,252.1 R 1,318.8 R 1,301.8 R 1,302.0
1974	92.1	R 6.9	44.5	NA	NA	NA	NA	44.5	0.0	NA	NA	H 51 4	R -34.4	0.0	R 1,301.8
1975	113.4 118.5	R 6.9	44.9 52.4	NA NA	NA NA	NA NA	NA NA	44.9 52.4	0.0 0.0	NA NA	NA NA	R 51.8 R 59.1	H -31.6 R -35.2	0.0 0.0	H 1,302.0
1976 1977	117.9	R 5.6 R 6.2	52.4 55.5	NA	NA	NA	NA	52.4 55.5	0.0	NA	NA	R 58.1 P 61.7	R -31.6 R -35.2 R -15.8 R -15.3 R -16.2 R -10.0 R 2.7 R -6.7 R -12.3	0.0	R 1,335.9 R 1,408.2
1978 1979	128.2 113.2	R 8.1 R 7.8	66.2 69.1	NA NA	NA NA	NA NA	NA NA	66.2 69.1	0.0 0.0	NA NA	NA NA	R 74.3 R 77.0	H -15.3	0.0 0.0	R 1,464.4 R 1,432.0
1979	108.1	R 7.2 R 7.3	165.3 174.3	NA NA 0.0	NA NA	NA NA	NA NA	165.3	0.0	NA NA	NA NA	R 172.6	R -10.0	0.0	R 1,427.5 R 1,386.2
1981	108.1 107.2	R 7.3	174.3	0.0	NA	NA	0.0	165.3 174.3	0.0	NA NA	NA	R 172.6 R 181.6	R 2.7	0.0 0.0	R 1,386.2
1982 1983	113.7 101.4	R 8.3 R 8.7	170.1 190.8	(s) (s) (s) (s)	NA NA	NA NA	0.0 0.0	170.1 190.8	0.0 0.0	NA NA	NA 0.0	R 178.4 R 199.5	R -12.3	0.0 0.0	R 1,362.6 R 1,374.3
1984	116.5	R 8.0	191.1	(s)	NA	NA	0.0	191.1	0.0	0.0	(s) (s)	H 199 0	R 13.0	0.0	R 1,440.5 R 1,459.2
1985	116.6 118.5	R 8.7 R 8.3	191.2 136.5	0.1 0.1	NA NA	NA NA	0.0 0.0	191.3 136.6	0.0 0.0	0.0	(S)	R 200.0 R 144 8	R 23.7	0.0 0.0	<sup>n</sup> 1,459.2 R 1 381 9
1986 1987	118.1	R 8.3 R 5.4	136.5 136.4	0.1	NA	NA	0.0	136.5	0.0	0.0 0.0	(s) (s)	R 144.8 R 141.9	R 13.0 R 33.0 R 23.7 R -6.3 R 17.2 R 40.3	0.0	R 1,381.9 R 1,368.8
1988 1989	121.5 114.8	R 5.1 R 5.0	141.8 108.0	0.2 0.5	NA NA	NA NA	0.0 0.0	142.0 108.5	0.0 0.1	0.0 0.2	(s)	R 147.0 R 113.8	H 17.2 R 40.3	0.0 0.0	R 1,478.4 R 1,478.8
1990	118.8	R 6.9 R 8.6	81.3	0.7	NA	NA	0.0	82.0	0.1	0.2 0.2 0.2	(s)	R 89.2 R 92.3	R 76.1 R 80.6	0.0	R 1,468.3 R 1,505.9
1991 1992	115.2 117.4	H 8.6 R 8.2	81.7 83.8	1.7 1.5	NA NA	NA NA	0.0 0.0	83.4 85.2	0.1 0.1	0.2 0.2	(s) (s) (s) 0.0	H 92.3 R 93.7	H 80.6 R 87.7	0.0 0.0	H 1,505.9
1993	120.4	R 8.5 R 7.6	78.7	1.2 1.4	NA	NA	0.0	79.9	0.1	0.2 0.2	0.0 0.0 0.0	R 88.7	R 87.7 R 101.7 R 101.9	0.0	R 1,505.1 R 1,567.5
1994 1995	120.4 115.3	H 7.6 R 8.1	83.5 86.1	1.4 3.0	NA NA	NA NA	0.0 0.3	84.8 89.4	0.1 0.1	0.2	0.0 0.0	R 88.7 R 92.7 R 97.8	H 101.9	0.0 0.0	R 1,614.6 R 1,677.0
1995 1996 1997	106.3	R 9.2 R 8.5	95.1 96.9	3.0 4.7	NA NA	NA NA	0.3	100.0 102.7	0.1	0.2 0.2 0.2	0.0	R 109.6 R 111.5	R 113.5	0.0	R 1.736.2
1997	41.1	R 8.5	96.9	5.5	NA NA	NA	0.2	102.7	0.1	0.2	0.0	R 111.5	R 148.6	3.0	R 1,736.2 R 1,741.3 R 1,734.6 R 1,825.3
1998 1999	98.6 120.1	R 6.0 R 6.8	89.4 93.0	2.9 2.4	NA NA	NA NA	0.2 0.2	92.5 95.7	0.1 0.1	0.2 0.2	0.0 0.0	R 98.8 R 102.8	H 125.0 R 127.8	2.8 1.4	H 1,734.6 R 1.825.3
2000	120.1	R 6.8 R 7.0	92.1	2.4 2.7	NA	NA	0.2	95.1	0.1	0.2 0.2 0.2 0.2	(s)	H 102 2	R 141.8	0.0	R 1,861.0 R 1,835.2 R 1,869.3
2001 2002	120.2 130.0	7.0 R 8 6	99.0 72.2	6.9 11.1	(s) (s)	NA NA	0.2 1.3	106.1 84.5	0.1 0.2	0.2 0.2	R 0.2	R 113.7 R 93.6	<sup>1</sup> 140.5 R 164.7	0.0 0.0	<sup>n</sup> 1,835.2 R 1 869 3
2003 2004	127.3	R 8.6 R 6.3	84.5	9.2 8.7	(s) 0.1	NA	4.6	98.3 87.5	0.2 0.2	0.2 0.2	R 0.3	R 105.3	R 150.8	(s) 0.0	
2004 2005	124.0 103.5	R 6.8 R 5.9	72.4 102.0	8.7 14.2	0.1 0.2	NA NA	6.3 10.0	87.5 126.4	0.2 0.3	0.2 0.1	0.0 (s) R 0.2 R 0.2 R 0.3 R 0.4 R 0.3	R 94.9 R 133.0	<sup>n</sup> 162.5 R 169.5	0.0 (s)	n 1,872.7 R 1 940 8
2006	127.7	R 5.7 R 5.2	97.1 92.4	12.9	0.7	NA	12.1	122.8	0.3	0.1	R 0.3 R 0.4	R 120 3	R 164.1	(s) (s)	R 1,849.4 R 1,872.7 R 1,940.8 R 1,850.1 R 1,885.2
2007 2008	135.4 127.0	H 5.2 R 5 5	92.4 93.3	16.0 19.6	1.0 0.8	NA NA	16.1 24.9	125.5 138.7	0.4 0.4	0.2	H 0.4 R 1 7	R 131.5 R 146.4	H 164.6 B 146.7	(s) (s)	H 1,885.2 R 1 974 5
2009	132.7	R 5.5 R 4.8 R 7.2 R 7.3	82.6	20.1	0.9 0.7	NA	25.4	129.0	0.5	R 0.2	R 1.7 R 3.6 R 3.7 R 4.1	H 138 1	R 134.1	0.0	R 1,874.5 R 1,741.8
2010 2011	138.8 121.0	H 7.2	104.1 101.8	22.7 20.8	0.7 2.4	NA 0.0	26.7 28.1	154.2 153.1	0.6 0.6	H 0.2	H 3.7	R 165.9 R 165.3	H 115.4	0.0 0.0	R 1,783.7 R 1,767.9
2011	149.8 122.0	R 5.2 R 6.8	97.9	20.5	2.4 2.4 3.8	0.0	27.0	147.8	0.6	R 0.3	R 5.3	R 159.2 R 167.0	R 115.8	0.0	R 1.710.3
2013	122.0	R 6.8 R 8.4	102.9	20.9	3.8	0.0	26.4	154.0	0.6	R 0.3	R 5.3	R 167.0	R 96.1	0.0	R 1,804.2
2014 2015	98.8 104.7	R 8.0	100.6 106.7	22.0 22.6	3.8 3.3	0.0 0.0	29.3 30.1	155.7 162.8	0.6 0.6	0.2 R 0.2 R 0.3 R 0.3 R 0.3 R 0.3 R 0.4 R 0.5 R 0.5	R 5.3 R 5.3 R 5.5 R 5.5	R 170.6 R 177.1	R 118.5 R 118.6 R 125.0 R 127.8 R 141.8 R 140.5 R 164.7 R 150.8 R 162.5 R 164.1 R 164.1 R 146.7 R 131.4 R 115.4 R 115.4 R 115.8 R 196.1 R 146.7 R 136.4 R 118.4 R 115.8	0.0 0.0	R 1,710.3 R 1,804.2 R 1,852.8 R 1,784.1
2016	106.2	R 9.5 R 9.1	101.2	22.6	4.7	0.0	30.9	159.3	0.6	R 0.4	R 5.2 R 5.6	R 175 n	R 101.8 R 91.1 R 99.3	0.0	R 1,765.5 R 1,782.0 R 1,861.2
2017 2018	100.9 105.9	<sup>n</sup> 9.1 R 8.2	99.4 104.3	22.4 23.1	4.0 3.8	0.0 0.0	31.9 33.6	157.7 164.9	0.6 0.6	P 0.5 R 0.6	H 5 6	R 173.5 R 179.9	P 91.1 R 99.3	0.0 0.0	□ 1,/82.0 R 1,861.2
2019	104 7	R 9.0	101.2 R 86.4	23.1	3.1	0.0	33.3 24.3	160.6 R 135.1	0.6	R 0.7	H64	R 177 ₄	R <sub>109.1</sub>	0.0	R 1,811.3 R 1,664.7
2020 2021	102.1 R 104.0	R 9.5 R 7.3	H 86.4 R 81.5	20.5 22.2	3.9 3.4	0.0 0.0	24.3 27.8	<sup>H</sup> 135.1 R 134.9	0.6 0.6	R 1.0 R 2.1	R 6.0 R 5.4	R 152.2 R 150.4	R 109.1 R 96.0 R 90.1	0.0 0.0	<sup>n</sup> 1,664.7 R 1 724 R
2022	105.1	6.8	88.0	22.7	3.4	0.0	28.1	142.3	0.6	3.8	6.2	159.7	115.8	0.0	R 1,724.8 1,768.6

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Wisconsin

						Petroleum					Bior	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>©</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Hydro- electric power <sup>g,h</sup>					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use h,m	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
960	7,540	89	21,745	4,258	245	33,125	4,349	7,640	71,362	338					12,586			
970	6,449	307	25,716	7,679	1,603	45,483	1,804	10,179	92,465	306					24,575			
980	2,415	338	21,995	6,036	2,397	49,606	1,704	5,820	87,558	258					36,906			
990	1,965	307	24,079	6,664	1,424	48,989	1,109	6,420	88,684	213					49,198			
000	1,855	372	29,017	11,129	3,139	58,194	1,108	9,929	112,516	231					65,146			
005	2,112	352	27,023	11,337	2,858	61,367	1,468	9,598	113,651	210					70,336			
006 007	1,787	328 344	28,141	10,155	2,748	60,526	851 800	9,221 8,579	111,643	204 180					69,821			
007	1,818 1,862	368	27,786 27,252	10,363 9,565	2,227 2,638	62,275 60,212	722	7,804	112,031 108,193	163					71,301 70,122			
009	1,629	346	23,223	8,861	2,493	60,551	245	6,725	100,193	113					66,286			
010	1,683	330	23,712	8,483	2,433	61,638	106	7,432	104,234	136					68,752			
11	1,641	346	23,567	8,595	2,747	59,419	121	7,604	102,053	153					68,612			
12	1,418	316	24,210	7,215	2,203	59,044	101	6,897	99,671	119					68,820			
13	1,435	381	24,022	9,463	2,216	58,846	68	7,730	102,345	155					69,124			
14	1,479	403	26,397	10,190	2,208	61,973	50	7,902	108,720	158					69,495			
15	1,234	357	25,916	9,270	2,274	62,532	81	7,168	107,241	163					68,699			
16	903	363	24,841	8,447	2,363	62,710	142	R 6,921	R 105,425	176					69,736			
17	935	380	24,643	8,247	2,478	61,991	167	R 7,406	R 104,933	168					69,079			
18	920	414	26,865	9,638	2,622	64,295	173	R 6,709	R 110,302	141					70,960			
19	832	420	26,915	11,619	2,827	63,064	147	R 6,076 R 5,974	R 110,646 R 99,530	114					69,158			
)20 )21	603 524	388 R 387	25,579 R 26,325	10,350 10,755	1,763 2,046	55,705 60,618	159 167	R 6,767	R 106,678	127 122					67,448 69,427			
022	456	420	26,758	10,755	2,046	61,398	171	6,453	100,676	97					69,876			
				,	_,_,				Trillion									
960	178.9	91.7	126.7	16.3	1.3	174.0	27.3	46.2	391.9	R 1.2	39.2	NA	NA	NA	42.9	R 745.6	R 86.6	R 83
970	147.0	313.1	149.8	29.3	9.0	238.9	11.3	62.4	500.8	R 1.0	38.3		NA NA	NA NA	83.8	R 1,084.0	R 171.8	R 1,2
980	55.8	340.8	128.1	22.4	13.5	260.6	10.7	36.2	471.5	R 0.9	164.7		NA NA	NA NA	125.9	R 1 159 7	R 267.9	R 1,4
90	47.4	308.5	140.3	25.0	8.0	257.3	7.0	40.4	477.9	R <sub>0.7</sub>	77.9		0.1	0.2	167.9	R 1,081.3	R 387.0	R 1,4
00	44.6	376.1	168.9	41.3	17.8	302.7	7.0	62.4	600.0	R 0.8	86.9			0.2	222.3	H 1,331.3	R 529.7	R 1,8
05	47.1	356.4	157.2	42.1	16.2	318.6	9.2	60.9	604.3	R <sub>0.7</sub>	95.3	10.0	0.3	0.1	240.0	R 1,354.3	R 586.5	R 1,9
06	40.6	332.1	163.3	37.6	15.6	313.8	5.4	58.4	594.0	R <sub>0.7</sub>	89.0		0.3	0.1	238.2	R 1,307.8	R 542.3	R 1,8
07	41.5	348.9	160.7	38.4	12.6	320.2	5.0	54.2	591.1	R 0.6	83.6		0.4	0.2	243.3	R 1,326.5	R 558.7	R 1,8
80	43.2	373.4	157.5	36.2	15.0	307.4	4.5	49.1	569.7	R 0.6	84.1	24.9	0.4	0.2	239.3	R 1,336.6	R 537.9	R 1,8
09	37.1	350.9	134.2	33.3	14.1	308.2	1.5	42.4	533.7	R 0.4	72.8		0.5	R 0.2		R 1,247.2	R 494.9	R 1,7
10	38.1	333.6	136.9	32.6	16.2	312.3	0.7	47.1	545.8	R 0.5	93.4		0.6	R <sub>0.2</sub>	234.6	R 1,273.4	R 510.4 R 494.6	R <sub>1,7</sub>
11 12	36.8	351.0 321.9	136.0	33.0 27.7	15.6	300.8 298.9	0.8	48.2	534.4 523.0	R 0.4	87.0 82.1	28.1 27.0	0.6 0.6	0.3 R <sub>0.3</sub>	234.1	R 1,272.8 R 1,222.2	R 487.8	R 1,7
12 13	32.1 32.3	321.9 391.7	139.6 138.4	27.7 36.3	12.5 12.6	298.9 297.8	0.6 0.4	43.7 48.3	523.0 533.9	R 0.5	82.1 87.9		0.6	R 0.3	234.8 235.9	R 1,309.5	** 487.8 R 494.7	·· 1, <i>i</i> R 1,8
14	33.0	417.8	152.1	39.1	12.5	313.5	0.4	49.5	567.2	R 0.5	83.0		0.6	Rna	237 1	R 1,368.8	R 484.1	R 1,8
5	27.6	374.0	149.3	35.6	12.9	316.2	0.5	44.9	559.4	R 0.6	89.3		0.6	R 0.3	234.4	R 1,316.4	R 468.5	R 1,
6	19.4	379.2	143.0	32.4	13.4	317.0	0.9	43.7	550.4	R 0.6	86.9		0.6	R 0.4	237.9	R 1,306.3	R 459.9	R 1,
17	20.3	395.6	141.9	31.7	14.0	313.2	1.0	46.4	548.3	R 0.6	84.9		0.6	R <sub>0.4</sub>	235.7	R 1,318.4	R 464.5	R 1,
18	20.1	433.5	154.7	37.0	14.9	324.9	1.1	R 42.0	R 574.7	R 0.5	90.7		0.6	R 0.5	242.1	R 1,396.4	R 465 8	R 1,
19	17.8	441.3	155.0	44.6	16.0	318.6	0.9	37.9	573.1	R <sub>0.4</sub>	87.1	33.3	0.6	<sup>R</sup> 0.6	236.0	R 1,390.3	R 422.6	R <sub>1,</sub>
20	13.0	_ 407.1	147.2	39.8	10.0	281.4	1.0	R 37.5	R 516.9	R 0.4	R 73.8		0.6	R 0.7	230.1	R 1,267.0	R 398.6	R 1,
21	11.3	R 406.1	R 151.7	41.3	11.6	306.1	1.0	R 42.3	R 554.1	R 0.4	R 68.3		0.6	R <sub>0.9</sub>		R 1,306.4	R 419.0	R 1,
22	10.0	441.7	154.3	41.4	11.4	310.0	1.1	40.0	558.1	0.3	73.3	28.1	0.6	1.0	238.4	1,351.7	417.6	1,7

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>&</sup>lt;sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>g</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

j Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

m Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

n Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Wisconsin

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>9</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	d barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses i	Total <sup>e,h</sup>
1960	1,622	47	11,206	2,801	1,227	15,233				5,298			
1965	1,153	47 79	11.790	3,866	660	16,315				6,963			
1970	724	105	11,721	5,870	1,608	19,198				9,825			
1975	173	120	11,019	5,659	530	17,208				11,782			
1980	11	123	8,155	3,123	124 195 29	11,402				13,597			
1985 1990	6	116 114	6,669 5,385	3,188	195	10,052				16,307			
1990	17	136	3,363 3,650	4,385 5,821	29 34	9,798 9,515				16,385 18,635			
2000	18	135	3,659 3,027	6,899	44	9,970				18,635 19,929			
2005	33	131	2 640	6 953		9,621				22,458			
2006	3	121	2,365	5,994	28 27	8.386				21,779			
2006 2007	6	131	2,640 2,365 1,980	5,994 6,315	14	8,308				22.374			
2008	0	141	2.060	7 162	9	9,231				21,976 21,421 22,299			
2009 2010	0	133 124	1,243 1,098	6,498 6,230	27 27	7,768				21,421			
2010	0	124	1,098	6,230	27	7,355				22,299			
2011	0	129	943 718	6,225	37	7,204 5,719				22,150 22,026			
2012 2013	0	113 143	718 798	4,995 6,724	6 9	5,719 7,532				22,026			
2013	0	140	790	7.085	16	8 026				22,090			
2014 2015	0	150 127	926 778	7,085 6,199	10	8,026 6,986				21,926 21,215			
2016	Ő	125	714	5,835	14	6,563				21,814			
2017	Ŏ	131	706	5,800	9	6,514				21,233			
2018	Ö	145	869	6,354	9	7,232				22,441			
2019	0	152	847	8,479	14	9,340				21,995			
2020	0	138	654	7,437	12	8,103				22,847			
2021	0	132	783	7,710	10	8,503				22,864			
2022	0	149	837	7,812	10	8,659				22,888			
							Trillion Btu						
1960	35.6	49.1	65.3	10.8	7.0	83.0	19.5	NA	NA	18.1	205.2	R 36.4	R 241.6
1965 1970	25.1	80.9	68.7	14.8	3.7	87.3 99.9	14.9	NA	NA	23.8	231.9	R 46.7	R 278.6
1970	15.3	107.2	68.3	22.5	9.1	99.9	11.9	NA	NA	33.5	267.8	R 68.7	R 278.6 R 336.5 R 348.7
1975	3.3	122.4	64.2	21.7	3.0	88.9	11.7	NA	NA	40.2	266.6	R 82.1	n 348.7
1980 1985	0.3 0.1	124.2 117.4	47.5 38.8	12.0 12.2	0.7	60.2 52.2	22.1 23.2	NA NA	NA NA	46.4 55.6	253.1 248.5	R 98.7 P 113.1	R 351.8 R 361.6 R 362.9 R 398.8 R 417.1
1965		114.7	31.4	16.8	1.1 0.2	52.2 48.4	14.7	0.1	0.2	55.9	234.0	R 128 0	R 361.0
1995	(s) 0.4	137.5	21.3	22.4	0.2	43.9	8.0	0.1	0.2	63.6	253.7	R 145 1	R 398 8
2000	0.5	136.4	17.6	26.5	0.2 0.3	44.4	5.4	0.1	0.2	68.0	255.0	R 128.9 R 145.1 R 162.1	R 417.1
2005	0.6	133.0	15.4	26.7	0.2	42.2	25.0	0.3	0.1	76.6	277.8	H 187 3	R 465.1 R 424.9 R 445.5
2006 2007	0.1	121.9	13.7	23.0 24.3	0.2	36.9 35.8	22.2	0.3	0.1	74.3	255.8 270.2	R 169.2 R 175.3	R 424.9
2007	0.1	132.9	11.5	24.3	0.1	35.8	24.5	0.4	0.2	76.3	270.2	R 175.3	H 445.5
2008	0.0	142.5	11.9	27.5	0.1 0.2	39.5	27.4	0.4	0.2	75.0	285.0	R 168.6 R 159.9	R 453.6 R 421.4
2009	0.0	135.0	7.2	25.0	0.2	32.3	20.4	0.5	0.2	73.1	261.5	n 159.9	n 421.4
2010	0.0	124.9	6.3	23.9	0.2	30.4	21.8	0.6	0.2	76.1	254.0	R 165.6	R 419.6
2011 2012	0.0 0.0	131.3 114.8	5.4 4.1	23.9 19.2	0.2	29.6 23.4	21.2 17.7	0.6 0.6	R 0.2	75.6 75.2	R 258.4 R 231.8	1159.7 B 156.1	H 200 0
2012	0.0	146.9	4.1	25.8	(s) 0.1	30.5	23.1	0.6	R 0.2 R 0.2 R 0.2	75.2 75.4	276.7	R 159.7 R 156.1 R 158.1	R 418.1 R 388.0 R 434.8
2014	0.0	156.0	5.3	27.2	0.1	32.6	23.4	0.6	0.2	74.8	287.7	H 152 7	R 440 4
2015	0.0	132.8	4.5	23.8	0.1	28.3	29.3	0.6	0.3	72.4	R 263.7	H 1/// 7	R 440.4 R 408.4
2016 2017	0.0	131.2 136.3	4.1	22.4 22.3	0.1	26.6 26.4	25.1 24.5	0.6	R <sub>03</sub>	74 4	258.3 R 260.6	R 143.9 R 142.8 R 147.3	R 402.1
2017	0.0	136.3	4.1	22.3	(s)	26.4	24.5	0.6	н 0.3	72.4	R 260.6	R 142.8	R 403.3
2018	0.0	151.5	5.0	24.4	0.1	29.5	29.8	0.6	R 0.4	76.6	H 288.3	H 147.3	R 402.1 R 403.3 R 435.6 R 436.3 R 410.7
2019	0.0	159.1	4.9	32.6	0.1	37.5	29.2 R 19.2	0.6	R 0.4	75.0	H 301.9	H 134.4	H 436.3
2020	0.0	145.1	3.8	28.6	0.1	32.4 34.2	H 19.2	0.6	R 0.4 R 0.5	78.0	R 275.7	R 134.4 R 135.0 R 138.0	H 410.7 R 408.6
2021 2022	0.0 0.0	138.8 156.7	4.5 4.8	29.6 30.0	0.1 0.1	34.2 34.9	R 18.5 23.1	0.6 0.6	0.5	78.0 78.1	R 270.6 294.1	□ 138.0 136.8	408.6 430.9

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

W Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Wisconsin

					Pet	roleum				Biomass						
3	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>C</sup>	Residual fuel oil	Total <sup>d</sup>	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity i		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat		End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960 1965 1970 1975 1988 1989 1995 2000 2005 2006 2008 2009 2011 2011 2012 2013 2015 2016 2010 2011 2011 2015 2016 2017	1,127 870 569 404 40 20 4 113 144 384 26 50 179 110 112 99 30 32 27 20 21	11 24 55 67 77 73 66 85 81 86 86 89 97 91 82 87 77 99 107	1,817 1,911 1,900 1,786 1,682 3,294 2,128 982 1,344 1,238 895 1,010 1,264 986 662 834 769 621 702 719	346 478 725 699 386 394 542 720 853 663 607 655 949 738 891 812 675 843 913 875 882	101 54 132 43 57 18 9 10 10 30 25 9 6 5 4 3 2 3 5	295 309 56 52 76 283 320 51 79 86 56 56 55 55 55 55 55	556 407 244 168 30 106 217 108 180 296 81 25 1 (s) 0 0 0	3,113 3,158 3,058 2,750 2,231 4,095 3,215 1,871 2,465 2,313 1,664 1,755 2,275 1,784 1,613 1,705 1,501 1,501 1,502 1,674 2,759 2,759 2,759	NA NA NA NA NA NA 11 4 4 7 (s) (s) (s) (s)			NA NA NA NA NA (s) (s) (s) 1 2 4 5 7 14 15 16 17 14	3,059 4,160 6,180 8,342 10,019 12,087 13,408 15,642 19,055 22,501 22,756 23,491 23,473 22,476 23,001 23,055 23,233 23,658 23,757 23,514 23,884			
2017 2018 2019 2020 2021 2022	20 20 20 15 0	90 100 102 92 101 117	786 648 623 445 R 656 693	1,021 1,435 1,366 1,467 1,528 1,445	3 3 2 2 3 3	1,174 1,178 1,182 1,190 1,202 1,236	0 0 0 0 0	2,983 3,265 3,173 3,104 8 3,389 3,376	0 0 0 0 0 0	   	  	20 35 41 53 85 99	23,641 24,093 23,546 22,436 23,266 23,427	   	 	  
1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2020 2020 2020	24.7 19.0 12.0 7.7 1.0 0.5 0.1 2.8 4.0 7.3 0.6 1.2 4.8 2.9 3.0 2.7 0.8 0.9 0.7 0.5 0.5 0.6 0.9 0.7 0.5 0.0 0.5 0.0 0.5 0.0 0.0 0.0 0.0 0.0	11.3 24.0 55.6 68.9 77.7 73.5 66.7 85.8 81.9 87.2 87.3 90.2 98.5 92.7 83.0 88.3 78.5 102.1 111.0 94.4 92.7 94.1 104.8 106.6 96.4 105.8 102.5	10.6 11.1 11.1 10.4 9.8 19.2 12.4 5.7 7.8 7.2 5.2 5.8 7.3 3.8 4.8 4.4 3.6 4.0 4.1 4.1 4.1 4.5 3.7 3.8 4.0	1.3 1.8 2.8 2.7 1.5 1.5 1.5 2.1 2.8 3.3 2.5 2.3 2.5 2.3 3.4 3.1 2.6 3.2 3.5 3.4 3.5 3.5 3.5 5.5 5.5 5.5 5.5 5.5	0.6 0.3 0.7 0.2 0.3 0.1 (s) 0.1 0.1 0.1 (s)	1.5 1.6 0.3 0.3 0.4 1.5 1.7 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	3.5 2.6 1.5 1.1 0.2 0.7 1.4 0.7 1.1 1.9 0.5 0.2 (s) (s) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.5 17.5 16.4 14.7 12.2 23.0 9.5 12.7 12.2 8.5 8.9 11.3 8.8 8.9 11.3 13.3 7.1 7.5 8.2 7.3 7.1 7.1 7.5 8.2 13.3 14.4 15.2 14.8 14.2 15.7	NA N	0.4 0.3 0.2 0.5 0.6 1.9 1.3 1.5 4.4 4.0 4.6 3.3 2.9 2.6 3.2 3.3 4.7 4.9 4.7 4.8	NA NA NA NA NA O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0	NA N	10.4 14.2 21.1 28.5 34.2 41.2 45.7 53.4 65.0 76.8 77.6 80.2 80.1 78.5 78.7 79.3 80.7 81.1 80.2 81.5 80.7 82.2 80.3 76.6 79.4	64.3 74.9 105.3 119.9 125.6 138.8 R 132.1 152.8 165.2 R 187.9 178.1 184.9 199.3 R 184.5 175.4 R 180.8 R 168.5 R 194.1 R 193.3 R 193.3	R 21.0 R 27.9 R 43.2 R 58.1 R 72.7 R 83.8 R 105.5 R 121.8 R 154.9 R 187.6 R 180.1 R 180.1 R 166.2 R 164.7 R 169.3 R 165.5 R 160.4 R 157.5 R 159.0 R 158.2 R 143.9 R 143.9 R 140.4	R 85.3 R 102.8 R 148.5 R 178.0 R 198.3 F 222.6 R 237.6 R 274.5 R 320.1 R 375.5 R 354.8 R 368.9 R 379.3 R 352.3 R 346.2 R 347.0 R 350.5 R 350.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Wisconsin

					Petro	leum			Hvdro-	Bio	mass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	electric power <sup>e,f</sup>				Solar <sup>f,i</sup>	Electricity j		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	d barrels	·		Million kWh	Wood and waste f,g	Losses and co- products <sup>h</sup>	Geo- thermal <sup>f</sup>		illion :Wh	End use f,k	system energy losses	Total f,k
1960	4,710	30 82	6,950 7,654	1,088	2,774	3,416	5,358 4,926	19,585	338 306				NA				
1965	5,789	82	7,654	866	2,541	2,371	4,926	18,358					NA				
1970 1975	5,147 2,439	141 152	7,917 7,150	1,009 1,996	2,471 2,027	1,554 1,105	7,555 5,430	20,506 17,708	306 318				NA NA				
1980	2,364	130	3,589	2,444	1,633	1,439	4,993	14,097	258				NA	13,290			
1985	2,132	115 122	3,192	1,611	1,137	158	3,457 5,725	9,556	258 201				ŅĄ				
1990 1995	1,960 1,949	122	4,178 4,111	1,619 2,089	780 934	891 699	5,725 6,740	13,193 14,573	266				(s) (s)	19,405 23,690			
2000	1,693	152	8,360	3,332	780	921	9,218	22,612	227				(s)				
2005	1,695	131	5,646	3,549	1,710	1,071	8,997	20,973	203				(s)	25,376			
2006 2007	1,758 1,762	118 121	5,570 5,670	3,379 3,234	1,938 1,677	639 740	8,650 8,033	20,176 19,354	204 179				0	25,286 25,436			
2007	1,682	128	5,317	1,217	958	715	7,296	15,503	163				0	24,672			
2009	1,519	120	3,724	1,459	990	244	6,262	12,680	113				0	22,390			
2010	1,572	121	3,674	1,337	1,042	106	6,889	13,048	135				0	23,452			
2011 2012	1,541 1,388	127 124	3,828 3,952	1,529 1,521	1,067 1,011	121 101	7,077 6,426	13,622 13,011	153 117				0	23,407 23,561			
2013	1,403	136	3,952 4,353	1,864	1,018	68	7,253	14,556	155				Ő	23,370			
2014	1,452	142	4,530	2,158	756	50	7.367	14,861	158				.0				
2015 2016	1,214 881	137 145	4,392 4,106	2,147 1,700	1,029 1,011	81 142	6,608 R 6,389	14,258 R 13,348	163 176				(s) 5	23,970 24,038			
2017	915	155	4,418	1,700		167	R 6 928	H 13 803	168				11				
2018	900	165	4,376	1.705	1.042	170	R 6.219	H 13.512	141				14	24,425			
2019	812	163	4,449	1,655		140	R 5,604 R 5,554	H 12 879	114				17				
2020 2021	588 524	154 R 150	4,149 4,306	1,342 1,450		150 163	R 5,554	R 12,232 R 12,867	127 122				21 24				
2022	456	150	4,352	1,435		167	5,598	12,613	97				27	23,560			
									Trillion Bt	u							
1960	116.6	30.8	40.5	4.1	14.6	21.5	33.3	114.0	R 1.2	19.3	NA	NA	NA		R 296.2	R 29.1	R 325.3
1965	142.4	83.0	44.6	3.3	13.3	14.9	30.6	106.7	R 1.0	24.2	NA	NA	NA		R 378.4	H 41.3	R 419.7
1970 1975	119.6 54.7	143.6 155.5	46.1 41.6	3.7 7.1	13.0 10.6	9.8 6.9	47.5 33.9	120.1 100.2	R 1.0 R 1.1	26.1 32.9	NA NA	NA NA	NA NA		R 439.6 R 381.4	R 59.9 R 75.4	R 499.5 R 456.8
1980	54.6	130.6	20.9	8.6	8.6	9.0	31.4	78.5	R 0.9	142.1	NA	NA	NA	45.3	R 452.0	R 96.5	R 548.4
1985	49.7	116.4	18.6	5.5	6.0	1.0	21.4	52.4	H 0.9	166.5	0.0	NA	ŅĄ		R 444.6	R 119.2	R 563.8
1990 1995	47.3 47.2	122.6 147.7	24.3 23.9	5.6 7.2		5.6 4.4	36.3 42.7	75.9 83.1	R 0.7 R 0.9	61.3 72.0	0.0 0.3	0.0 0.0	(s) (s)	66.2 80.8	R 374.1 R 431.9	R 152.7 R 184.4	R 526.7 R 616.3
2000	40.1	153.4	48.6	11.4		5.8	58.2	128.1	H 0.8	80.0	0.3	0.0	(s)		R 491.9	R 212.7 R 211.6	R 704.7
2005	39.1	132.3	48.6 32.8	12.2		6.7	58.2 57.4	118.0	R 0.7	65.9	10.0	0.0	(s)	86.6	R 452.7	R 211.6	R 664.3
2006 2007	39.9 40.1	119.7 122.8	32.3 32.8	11.6 11.0		4.0 4.7	55.0 50.9	113.0 108.0	R 0.7 R 0.6	62.8 54.7	12.1 16.1	0.0	0.0	86.3 86.8	R 434.4 R 429.0	R 196.4 R 199.3	R 630.8 R 628.3
2007	38.3	122.8	32.8	4.1	8.6 4.9	4.7	46.1	90.3	R 0.6	54.7 52.1	24.9	0.0	0.0		R 420.0	R 189 3	R 609.3
2009	34.2	121.4	21.5	4.8	5.0	1.5	39.6	72.5	R 0.4	49.1	25.4	0.0	0.0	76.4	R 379.4	R 167.1	R 546.6
2010	35.1	122.6	21.2	5.1	5.3	0.7	43.8	76.1	R 0.5	68.2	26.7	0.0	0.0		R 409.2	R 174.1	R 583.3
2011 2012	34.2 31.2	128.7 126.8	22.1 22.8	5.9 5.8		0.8 0.6	45.1 40.9	79.2 75.3	R 0.5 R 0.4	62.9 61.8	28.1 27.0	0.0 0.0	0.0 0.0		R 413.5 R 402.9	R 168.7 R 167.0	R 582.2 R 569.9
2012	31.4	139.7	25.1	7.2		0.6	45.5	83.3	R 0.5	61.6	26.4	0.0	0.0		R 422 8	R 167 2	R 590 0
2014	32.3	146.9	26.1	8.3	3.8	0.3	46.4	84.9	H 0.5	56.3	29.3	0.0	0.0	81.2	R 431 4	R 165.9	R 597 3
2015	27.1	143.1	25.3	8.2 6.5	5.2	0.5	41.5	80.8	R 0.6 R 0.6	55.3	30.1	0.0	(s)	81.8	R 418.8	R 163.5 R 158.5	R 582.3 R 575.8
2016 2017	18.8 19.7	151.4 161.1	23.6 25.4	6.5 4.9	5.1 5.1	0.9 1.0	40.5 43.6	76.7 80.1	R 0.6	56.9 55.3	30.9 31.9	0.0	(s) R (s)	82.0 82.6	R 417.3 R 431.4	R 162.8	R 594.2
2018	19.6	172.5	25.2	6.6	5.3	1.1	R 39.1	R 77.2	R 0.5	55.9	33.6	0.0	R (s)	83.3	R 442.8	H 160 3	R 603.1
2019	17.3	170.7	25.6	6.4	5.2	0.9	R 35.1	73.2 R 70.2	R 0 4	53.1	33.3	0.0	R 0.1	80.6	R 428 6	R 144.3	R 572.9
2020 2021	12.6 11.3	161.2 R 157.1	23.9 24.8	5.2 5.6	5.2 5.0	0.9 1.0	R 35.0 R 37.6	R 70.2 R 74.1	R 0.4 R 0.4	49.7 45.1	24.3 27.8	0.0 0.0	R 0.1 R 0.1	75.6 79.5	R 394.1 R 395.4	R 131.0 R 140.6	R 525.1 R 536.0
2021	10.0	157.8	25.1	5.5		1.0	35.1	72.2	0.3		28.1	0.0	0.1		394.3	140.8	535.1
		.57.0	23.1	0.0	3.4		55.1		0.0	70.4	20.1	0.0	0.1	00.4	334.0	. 10.0	555.1

a Includes supplemental gaseous fuels that are commingled with natural gas.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

KWh = Kilowatthours. —— Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

W Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Wisconsin

						P	etroleum							
	Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use <sup>g,h</sup>	system energy losses <sup>i</sup>	Total <sup>g,h</sup>
1960	81	1	427	1,773	23	245	527	30,056	378	33,430	0			
1965	19	2	636 332 173	2 148	36 74	629 1,603	493 552 497	33 446	378	37,765 49,703	Ō			
1970 1975	8	7	332	4,179	74 93	1,603 2,169	552	42,956 49,469	6 285	49,703 58,751	0			
1980	(s) 0	8	124	6,064 8,570	84	2.397	523	47.897	235	59.829	0			
1985 1990	Ö	3	102 122	9.749	184 118	1,663 1,424	476 535	45,136	138	57,447 62,478	0			
1990	0	4	122	12,388	118	1,424	535	47,890	2	62,478	0			
1995	0	4	374 112	14,524	123 45	2,044	511 545	54,068 57,334	22 7	71,666 77,468	(s) (s)			
2000 2005	ő	4	112 83	16,286 17,500	45 172	3,139 2,858	545 460	57,334 59,571	101	77,468 80,745	0			
2006	0	3	71	19,311	176	2,748	448	58,533	131	81,418	0			
2007	0	3	61	19,125	160	2,227	463	60,542	35	82,614	0			
2008 2009	0	3	64 44	18,611 17,271	237 167	2,638 2,493	430 386	59,198 59,506	6 0	81,184 79,866	0			
2010	0	3	54	18.278	25	2.864	458	60.540	0	82 219	0			
2011 2012	0	3	59 57	17,962 18,770	28	2,747 2,203	429 406	58,297 57,979	0	79,522 79,439	0			
2012	0	2	57	18,770	28 25 32 35 49	2,203	406	57,979	0	79,439	0			
2013 2014	0	3	52 60	18,251 20,240	32	2,216 2,208	413 454	57,772 61,163	0	78,736 84,160	0			
2015	0	4	62	20,027	49	2,274	487	60,349	0	83.248	(s)			
2016	Ö	4	60	19,307	60	2,363	487 R 453 R 407	60,540	Ō	83,248 R 82,784	(s)			
2017	0	4	59	18,734	155	2,478	H 407	59,799	0	H 81.632	(s)			
2018 2019	0	4	64 66	20,972 20,995	144 119	2,622 2,827	R 413 R 391 R 350	62,075 60,851	3 6	R 86,293 R 85,255	(s)			
2020	0	4	56	20.331	105	1,763	R 350	53,478	9	R 76,092	i			
2021	Ö	4	56 63 66	R 20,581	67	2,046	H 372	58,416	3	H 81,919	i			
2022	0	4	66	20,877	81	2,014	400	59,100	3	82,919	1			
							Tri	Ilion Btu						
1960	2.0	0.6	2.2	10.3	0.1	1.3	3.2 3.0 3.3 3.0 3.2 2.9 3.2 3.1	157.9	2.4	177.4	0.0	179.9	0.0	179.9
1965	0.5 0.2	1.6 6.7	3.2 1.7	12.5 24.3	0.1 0.3	3.5 9.0	3.0	175.7 225.7	2.4	200.4 264.4	0.0 0.0	202.5 271.3	0.0 0.0	202.5 271.3
1970 1975		6.7 5.1	0.9	35.3	0.4	12.3	3.0	225.7 259.9	(s) 1.8	313.5	0.0	318.6	0.0	318.6
1980	(s) 0.0	8.3	0.6	49.9	0.3	13.5 9.3 8.0	3.2	251.6	1.5	320.6	0.0	328.9	0.0	328.9
1985	0.0	2.8	0.5	56.8	0.7	9.3	2.9	237.1 251.6	0.9	308.2	0.0	311.1	0.0	311.1
1990 1995	0.0 0.0	4.4 4.3	0.6 1.9	72.2 84.5	0.5 0.5	8.0 11.6	3.2	281.4	(s) 0.1	336.0 383.1	0.0 (s)	341.2 387.4	0.0 (s)	341.2 387.4
2000	0.0	4.3	0.6	94.8	0.2	17.8	3.3	298.2	(s)	414.8	(s)	419.1	(s)	419.1
2005 2006	0.0	3.8 3.2	0.4	101.8	0.7	16.2 15.6	2.8 2.7	309.3 303.5	0.6 0.8	431.8 435.7	0.ó	435.9 439.6	0.0	435.9 439.6
2006	0.0	3.2	0.4	112.1	0.7	15.6	2.7	303.5	0.8	435.7	0.0	439.6	0.0	439.6
2007 2008	0.0 0.0	3.0	0.3 0.3	110.6 107.6	0.6 0.9	12.6 15.0	2.8	311.3	0.2	438.5 428.7	0.0 0.0	442.4 432.2 421.7	0.0 0.0	442.4 432.2
2009	0.0	2.7 1.7 3.1	0.2	99.8	0.6	14.1	2.3	302.9	(s) 0.0	420.0	0.0	421.7	0.0	432.2 421.7
2009 2010	0.0	3.1	0.2 0.3	105.6	0.1	14.1 16.2	2.8 2.6 2.3 2.8	302.3 302.9 306.8	0.0	438.5 428.7 420.0 431.7	0.0	434.8	0.0	434.8
2011	0.0	2.7	0.3	103.6	0.1	15.6	2.6	295.2	0.0	417.4	0.0	420.1	0.0	420.1
2012 2013	0.0 0.0	2.7 1.9 3.0	0.3 0.3	108.2 105.2	0.1 0.1	12.5 12.6	2.6 2.5 2.5	293.5 292.3	0.0 0.0	417.1 413.0	0.0 0.0	418.9 415.9	0.0 0.0	418.9 415.9
2013	0.0	4.0	0.3	116.6	0.1	12.5	2.8	309.4	0.0	441 8	0.0	445.7	0.0	445 7
2015	0.0	3.7 3.9 4.2	0.3 0.3	115.4	0.2	12.5 12.9	2.8 3.0 2.7 2.5	305.2	0.0	436.9 R 433.9	(s)	440.6	(s)	440.6 437.7
2016	0.0	3.9	0.3	111.2	0.2	13.4	2.7	306.0 302.2	0.0	H 433.9	(s)	437.7	(s)	437.7
2017 2018	0.0 0.0	4.2 4.6	0.3 0.3	107.9 120.8	0.6 0.6	14.0 14.9	2.5	302.2 313.7	0.0 (s)	427.4 452.8	(s) (s)	431.6 R 457.4	(s) (s)	431.6 R 457.4
2019	0.0	4.8	0.3	120.9	0.5	16.0	2.5 2.4	313.7 307.4	(S)	452.8 R 447.6 R 400.1	(s)	452.4	(s)	R 457.4 452.4
2020	0.0	4.4	0.3	117.0	0.4	10.0	2.1 R 2.3	2/0.2	(s) 0.1	R 400.1	(s)	404.4	(s)	404.4
2021 2022	0.0 0.0	4.3	0.3 0.3	R 118.6	0.3 0.3	11.6	H 2.3 2.4	295.0 298.4	(s)	R 430.1 435.3	(s)	R 434.4 439.9	(s)	R 434.4
/11/2/	0.0	4.6	0.3	120.4	0.3	11.4	2.4	298.4	(s)	435.3	(S)	439.9	(s)	439.9

 <sup>&</sup>lt;sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 <sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— — =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Wisconsin

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power <sup>d</sup>		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kil	owatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	5.195	2	5	0	45	50	0	2,061		0	NA	NA	0	
1965 1970	5,195 6,697	14	6	0	45 53	50 59	0	1,825 1,597		0	NA	NA	0	
1970 1975	10,450 9,716	31	124 578	240	1,132	1,497	157 10,293	1,597 1,719		0	NA NA	NA NA	0	
1980	13,229	20 14	499	37 9	548 68	1,163 576	9,911	1,857		0	NA	NA NA	0	
1985	15.876	1	251	24	0	274	10.979	2.288		0	0	(s)	0	
1990 1995	18,158 21,072	3 10	114 194	0 144	0	114 337	11,226 10,970	1,802 2,109		0	0	(s) 0	0	
2000	21,072	21	284	192	2	478	11,512	1.754		0	0	3	0	
2005	24,615	21 59	286	844	0	1,130	9,921	1,530		ŏ	ő	93	(s)	
2006	23,702	44 54	246	1,273	0	1,519	12,234	1,475		0	0	101	(s)	
2007 2008	23,780 24,725	54 41	299 164	1,360 1,299	0	1,660 1,463	12,910 12,155	1,336 1,453		0	0	109 487	(s) (s)	
2009	22,199	41	94	972	ő	1,066	12.683	1,281		0	Ö	1.052	0	
2010	23,833	43 48 87	94 86 84	993 759	0	1,080	13,281	1,976		0	0	1,088	0	
2011 2012	22,812 19,283	48	84 100	759 157	0	843 257	11,560 14,300	1,994 1,411		0	0	1,188 1,558	0	
2012	23,674	61	71	157	0	257 226	11,675	1,411		0	0	1,556	0	
2014	21,235	60	71 124	155 224	Ŏ	226 348	9,447	1,824 2,314		ő	1	1,558 1,611	Ŏ	
2015	21,559	101	67 70	182	0	249	10,008	2,178		0	1	1,582	0	
2016 2017	18,972 20,918	120 107	70 73	213 293	0	283 366	10,151 9,649	2,619 2,489		0	3 21	1,508 1,633	0	
2017	19.480	129	73 82	276	0	358	10.129	2,469		0	35	1,633	0	
2018 2019	19,480 14,694	148	82 114	247	Ö	358 361	10,129 10,030	2,251 2,527		Ö	35 36	1,611 1,849	Ö	
2020	13,239	160	52	235	0	286 827	9,771	2,661		0	90	1,735	0	
2021 2022	15,408 12,456	150 174	461 68	366 345	0	413	9,970 10,077	2,023 1,894		0	363 807	1,566 1,784	0	
							Γrillion Btu							
1960	125.8 161.0	2.1 14.7	(s) (s) 0.7 3.4	0.0 0.0	0.3 0.3	0.3 0.4	0.0	R 7.0	0.0	0.0	NA	NA	0.0 0.0	R 135.2 R 182.3
1965 1970	161.0 234.6	14.7 31.2	(s)	0.0 1.4	0.3 7.1	0.4 9.3	0.0 1.7	R 6.2	(s) 0.1	0.0 0.0	NA NA	NA NA	0.0 0.0	R 282.3
1975	206.3	20.3	3.4	0.2	3.4	7.0	113.4	R 5.5 R 5.9	0.0	0.0	NA	NA	0.0	н 352.8
1980	271.5	13.8	2.9	0.1	0.4	3.4	108.1	R 6.3	0.6	0.0	NA	NA	0.0	R 403 8
1985 1990	310.3 347.0	1.3	1.5	0.1	0.0 0.0	1.6	116.6 118.8	R 7.8	0.9	0.0	0.0	(s)	0.0	R 438.6
1990	347.0 391.2	2.7 10.1	0.7 1.1	0.0 0.9	0.0	0.7 2.0	115.3	R 6.1 R 7.2	3.4 4.9	0.0 0.0	0.0 0.0	(s) 0.0	0.0 0.0	R 478.8 R 530.6
2000	454.6	21.5	1.6	12	(s)	2.8	120.1	R 6.0	5.2	0.0	0.0	_ (s)	0.0	R 610.2 R 657.0
2005	475.5	59.2 44.5	1.7	4.8	0.0	6.5	103.5	R 6.0 R 5.2 R 5.0	6.7	0.0	0.0	H 0.3	(s)	H 657.0
2006 2007	422.1 423.6	44.5 55.1	1.4 1.7	4.8 7.3 7.8	0.0 0.0	8.7 9.5	127.7 135.4	R 4.6	8.1	0.0 0.0	0.0 0.0	(s) R 0.3 R 0.3 R 0.4 R 1.7	(s) (s) (s)	R 616.5 R 637.4
2008	423.6 437.5	41.7	0.9	7.4	0.0	8.4	135.4 127.0	R 5.0	8.8 9.2	0.0	0.0	R 1.7	(s)	R 637.4 R 630.5
2009	388.8	41.6	0.5	5.6	0.0	6.1	132.7	R 4.4	9.8	0.0	0.0	n 3.6	(s) 0.0	H 587.0
2010	420.3 410.5	43.1 48.3	0.5 0.5	5.7 4.3	0.0 0.0	6.2	138.8 121.0	R 6.7 R 6.8	10.7 14.8	0.0 0.0	0.0	R 3.7 R 4.1	0.0 0.0	R 629.6 R 610.2
2011 2012	341.2	40.3 88.4	0.6	4.3 0.9	0.0	4.8 1.5	149.8	R⊿a	15.8	0.0	0.0	R 5.3	0.0	R 606.8
2013	422.2	88.4 62.3	0.4	0.9 0.9	0.0	1.5 1.3	122.0	R 6.2 R 7.9	15.0	0.0	0.0	R 5.3 R 5.3 R 5.5	0.0	R 606.8 R 634.4
2014	384.1	61.6	0.7	1.3	0.0	2.0	98.8	R 7.9 R 7.4	17.6	0.0	(s)	R 5.5 R 5.4	0.0	H 577 5
2015 2016	380.6 338.0	103.0 121.8	0.4 0.4	1.0 1.2	0.0 0.0	1.4 1.6	104.7 106.2	'' /.4 Rga	17.4 14.3	0.0 0.0	(s) _ (s)	11 5.4 R 5 1	0.0 0.0	R 619.9 R 596.0
2017	368.3	109.2	0.4	1.7	0.0	2.1	100.9	R 8.9 R 8.5 R 7.7	14.5	0.0	R 0 1	R 5.1 R 5.6 R 5.5 R 6.3	0.0	H 609.2
2018	368.3 342.0	131.8	0.5	1.6	0.0	2.1	105.9	R 7.7	13.6	0.0	R 0 1	R 5.5	0.0	H 608.6
2019 2020	262.3 236.3	151.3 164.7	0.7	1.4 1.3	0.0 0.0	2.1	104.7	R 8.6 R 9.1	14.1 12.6	0.0 0.0	R 0.1 R 0.3	H 6.3 R 5.9	0.0 0.0	R 549.5 R 532.7
2020	230.3 275.5	155.0	0.3 2.7 0.4	1.3 2.1	0.0	1.6 4.7	102.1 R 104.0	R 6.9	13.2	0.0	R 1.2	5.9 R 5.3	0.0	R 565.8
2021 2022	275.5 222.5	155.0 180.2	0.4	2.0	0.0 0.0	2.4	105.1	R 6.9 6.5	14.7	0.0	R 1.2 2.8	R 5.3 6.1	0.0 0.0	540.2

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Wyoming

						Petroleum								
						retroleum					Hydro-			
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	Nuclear electric power	electric power <sup>g</sup>	Wind	Fuel ethanol <sup>h</sup>	Biodiesel
Year	Thousand short tons	Billion cubic feet				Thousand barrels				М	illion kilowatthou	rs	Thousan	d barrels
1960 1965	993 2 109	51 59	3,278 3,696	1,114 1,171	56 74 128	4,431 4,739 5,900	1,749 2,171	2,874 3,550	13,502 15 401	0	609 884	0	NA NA	NA NA
1965 1970	2,109 3,802	59 110	3,696 5,059	1,848 2,078	128	5,900	1,487	4,137	15,401 18,558	Ö	1.006	0	NA	NA
1971 1972	3,600 4,818	115 126	5,731 5,499	2,078 2,475	129 163	6,055 6,552	1,203 1,281	4,383 4,396	19,578 20,366	0	1,312 1,172	0	NA NA	NA NA
1973	6.085	109	6 295	2 120	163	6.910	1.550	4.998	22.036	0	1.209	0	NA	NA
1974 1975	6,365	96 87	7,094 7,656	1,789 1,815	165 124	6,798 7,354	1,995 2,076	4,536	22,377	0	1,411	0	NA	NA
1975 1976	7,628 10,155	87 87	7,656 8,161	1,815	124 130	7,354 7,869	2,076 2,686	4,296 4,286	23,321 24,964	0	1,120	0	NA NA	NA NA
1977	13.033	84	9,340	1,832 1,795	150	8,275	2,595	5.154	27,310	0	1,043 762	0	NA	NA NA
1978	12,947 15,311	87	10,553	2.022	176	8,833	2.945	5,688 5,235	30 218	0	982	0	NA	NA
1979 1980	15,311 15,208	87 84 87 94 69 69	12,047 13,247	2,068 2,030	189 162	8,544 8,501	3,075 2,171	5,235 4,848	31,158 30,959	0	1,053 1,108	0	NA NA	NA NA
1981	18,354	69	12,433 11,090	2,028 2,551	249	8,498	1,989	3,434	28,631 26,791	ő	841 850	ő	2	NA
1982	19,197	91	11,090	2,551	214	8,266	1,575	3,096	26,791	0	850	0	, 1	NA
1983 1984	17,970 20,756	81 85	7,231 6,457	2,641 2,194	155 159	7,856 8,196	320 195	3,041 3,973	21,243 21,174	0	1,150 1,286	1 3	(s)	NA NA
1985	23,155	82	7.216	1.942	154 144	7.671	211 190	4.087	21,174	0	1.068	3	1	NA
1985 1986	19,338	75	6,531	2,169	144	7,203	190	3,938	21,280 20,175	0	1,068 1,140	.1	(s) (s)	NA
1987 1988	24,399 25,424	82	8,426	2,756	202 193	7,277 7,427	119 257	4,135 4,237	22,915	0	768	(s) (s)	(s) (s)	NA NA
1989	23,952	82	9,093 9,382	2,083 2,462	160	7.561	30	4,109	23,289 23,704	0	789 680	(s)	(8)	NA
1990 1991	25 514	82 75 82 82 82 92 97	9,308	1,263 1,228	143	7,105 7,212	30 39 40	4,168	22,026 19,663	0	645	(s) 0	22 82	NA
1991	25,150	97	7,813	1,228	119 153	7,212	40 10	3,250 3,340	19,663	0	736	0	82 137	NA NA
1992 1993	27,339 26,171	124 105	8,278 9,273	1,184 1,752	140	7,429 7,572	71	3,156	20,395 21,965	0	636 787	0	156	NA NA
1994	27.459	106	8.974	1.580	152	7.683	40	3,478	21.906	0	897	0	177	NA
1995 1996	25,933 26,647	98 101	10,323 10,552	1,979 1,651	160 151	7,936 7,905	20 6	3,274 3,854	23,693 24,119	0	799 1,232	0	135 49	NA NA
1997	26,096	101	11,306	308	121	7,603	4	3,934	23,277	0	1,232	0	3	NA NA
1997 1998	28.773	109	11.103	308 253	116	7,603 7,888	6	3,934 3,527	23,277 22,892	0	1,381 1,342	2	0	NA
1999 2000	27,677 28,416	97 101	13,668 12,600	480 1,217	174 286	7,879 7,799	8	3,968 4,145	26,177 26,070	0	1,170 1,011	11 246	0	NA NA
2001	27.984	99	14.020	1 238	331	8.102	23 68	4.262	28.020	0	879	365	0	(s)
2002	27,305	99 113	13,814	1,114 1,093	331 210	8,041	151	3,596	26,927	0	584 594	447	0	`1
2003 2004	27,575	115	14,733 14,112	1,093 993	166	8,009 7,968	143 107	4,255 3,902	28,398	0	594	366 617	0	1
2005	28,156 27,752	107 108	14.112	1,241	242 204	8.187	133	4.051	27,323 27,927	0	593 808	717	159	4
2006 2007	27.906	108	16,238 16,328	1.212	292 378	8,329 8,523	111	3,855 3,957	30,037 30,732	0	843	759 755	160	10
2007 2008	28,382 28,672	141 143	16,328 16,522	1,469 1,505	378 393	8,523 8,208	76 80	3,957 4,094	30,732 30,901	0	729 835	755 963	283 354	14
2008	27,080	143	14,722	1,595 1,539	431	8,533	89 23	4,625	29 871	0	967	2,226	431	12 13
2010	27.707	150	15 104	1 371	363	8 541	16	4.949	30,344 30,838 31,543	Õ	1,024	3.247	501	10
2011 2012	26,818	156 153	15,392 15,979	1,461 1,245	364 346	8,378 8,735	(s)	5,242 5,236	30,838	0	1,024 1,224 893	4,612	634 698	35
2012	27,870 29,531	150	15,979	1,245	348	8 663	0	5,236 4,964	29,958	0	711	4,369 4,433	738	43
2014	27,941	150 137	14,659 16,556	1,324 1,514 1,076	294 321	8,369 8,740	Ő	4,863	29,958 31,595 29,412	Õ	711 869 868	4,406 3,757	697	95
2015 2016	27,817 26,055	119 123	14,426 13,737	1,076 1,065	321	8,740 8,838	0	4,849 R 4,582	29,412 R 28 505	0	868 973	3,757	869 914	10 35 70 43 95 40 144 94
2016	26,303	149	14,042	1,284	283 323	8,400	0	R 4,582 R 4,579	R 28,505 R 28,627 R 29,490	0	1,124	4,389 4,321	872	94
2018	25,969	165	15,450	1.386	308	7.932	Ŏ	R 4,415 R 4,331	R 29,490	Õ	976	4.057	819	115
2019 2020	23,384 22,080	160 157	14,819 12,946	1,553 1,415	351 310	7,858 7,345	0	<sup>H</sup> 4,331 <sup>R</sup> 3,874	R 28,912 R 25,891	0	992	4,163 5,513	826 779	191 162
2020	22,080	153	12,946 R 14,032	1,415	310 442	7,345 7,791	0	R 3,360	R 27,053	0	1,086 790	5,513 8,448	779 785	R 103
2021 2022	22,217	153 163	13,963	1,429 1,556	442 361	7,559	ŏ	3,371	26,811	ő	745	9,780	710	61

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
 c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>&</sup>lt;sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be

separately identified.

h Includes denaturant, Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Wyoming (trillion Btu)

					Fossil	l fuels						Fossil fuels	
						Petroleum						(as commingled)	
Year	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil excluding biofuels <sup>à</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
1960	15.8	52.8	19.1	4.3	0.3	23.3	11.0	17.6	75.5	144.1	52.8	19.1	23.3
1960 1965	15.8 34.5	54.8	21.5	4.5	0.4	23.3 24.9	13.6	21.5	75.5 86.5	175.7	52.8 54.8	21.5	23.3 24.9
1970 1971	63.5 58.8	112.5	29.5 33.4	7.0 7.8	0.7 0.7	31.0 31.8	9.3 7.6	25.2 26.7	102.7 108.1	278.7 284.8	112.5 117.9	29.5 33.4	31.0 31.8
1971	80.1	117.9 128.7	33.4 32.0	7.8 9.3	0.7	31.8 34.4	7.6 8.1	26.7 26.7	108.1	284.8 320.3	117.9	33.4 32.0	31.8 34.4
1973 1974	102.4	110.4	36.7 41.3	8.0 6.7	0.9 0.9	34.4 36.3 35.7	8.1 9.7 12.5	30.3 27.3	111.4 121.9 124.6	334.7 329.0	128.7 110.4 95.4	32.0 36.7 41.3	34.4 36.3 35.7
1974	109.1	95.4	41.3	6.7	0.9	35.7	12.5	27.3	124.6	329.0	95.4	41.3	35.7
1975 1976	128.0 179.1	81.4 82.5	44.6 47.5	6.8 6.9	0.7 0.7	38.6 41.3 43.5	13.1 16.9	25.9 26.0	129.7 139.4 153.2	339.2 400.9	81.4 82.5	44.6 47.5	38.6
1977	230.7	78.4	54.4	6.7	0.7	43.5	16.3	31.5	153.4	462.3	78 4	54 4	43.5
1978	228.1	79.8	61.5 70.2	7.5 7.6	1.0	46.4 44.9	18.5 19.3	34.9	169.8 174.8 173.5 160.1	477.7	79.8 87.2	61.5	38.6 41.3 43.5 46.4 44.9 44.7 44.6
1979	268.9	87.2	70.2	7.6	1.1	44.9	19.3	31.8	174.8	530.9	87.2	70.2	44.9
1980 1981	268.1 318.9	73.0 72.9	77.2 72.4	7.4 7.4	0.9 1.4	44.7 44.6	13.6 12.5	29.7 21.7	1/3.5 160.1	514.6 551.9	73.1 73.1	77.2 72.4	44.7 44.6
1982	333.6	90.6	64.6	9.2 9.6	1.2	43.4 41.3	9.9	19.5 18.7	147.8	572.0	91.1	64.6	43.4 41.3
1983	313.6	85.2	42.1	9.6	0.9	41.3	2.0	18.7	147.8 114.6	513.5	85.6	42.1	41.3
1984	359.4	89.7 86.0	37.6 42.0	7.8 6.9	0.9	43.1	1.2	24.8	115.4 117.4	564.5	90.0	37.6	43.1
1985 1986	405.5 336.6	78.4	38.0	7.9	0.9 0.9 0.8	37.8	9.9 2.0 1.2 1.3 1.2 0.7	26.0 25.2	111 0	608.9 526.0	86.4 78.8 86.4	42.0 38.0	43.1 40.3 37.8
1987	428.1	86.0	49.1	10.2 7.7	1.1	38.2	0.7	26.0	125.4 128.6	639.6	86.4	49.1 53.0	38 2
1988 1989	445.7	86.4 86.7	53.0	7.7	1.1	39.0	1.6 0.2 0.2	26.3	128.6	660.7 642.0	86.7	53.0	39.0 39.7
1969	425.6 459.8	101.3	54.6 54.2	8.9 4.6	0.9 0.8	39.7 37.3	0.2	25.3 25.7	129.7 122.8	683.9	86.9 101.3	54.6 54.2	39.7 37.3
1991	450.8	103.1	45.5	4.5	0.7	43.1 40.3 37.8 38.2 39.0 39.7 37.3 37.9 39.0	0.3	20.3	109.1	663.0	103.1	45.5	37.9
1992	491.3	130.7	48.2	4.5 4.3 6.2	0.9	39.0	0.1 0.4	20.5 19.5	113.0 120.0	735.1 698.2	130.7	48.2 54.0	37.9 39.0 39.5
1993 1994	467.8 490.9	110.5 112.3	54.0 52.2	6.2 5.7	0.8	39.0	0.4	19.5 21.5	120.0 120.0	698.2 723.1	110.5	54.0 52.2	39.5 40.1
1995	463.5	103.8	60.1	5.7 7.1	0.8 0.9	39.4 40.8 41.0 39.6 41.0	0.1	21.5 20.0	120.0 129.0 132.7	723.1 696.4	112.3 103.8	52.2 60.1	40.1 41.3 41.2 39.6
1996	474.1	107.6	61.4	5.9	0.9	41.0	(s)	23.5	132.7	714.4	107.6	61.4	41.2
1997 1998	468.3 516.3	107.9 116.5	65.8 64.6	1.1 0.9	0.7 0.7	39.6	(s) (s) (s) 0.1	24.1 21.7	131.3 128.9	707.6 761.7	107.9 116.5	65.8 64.6	39.6 41.0
1999	496.2	101.7	79.5	1.8	1.0	41.0	0.1	24.5	147.8	745.6	101.7	79.5	41.0
2000	506.1	106.0	73.3	4.4	1.6	41.0 40.6	0.1	25.7	147.8 145.7	757.8	106.0	79.5 73.3	41.0 40.6
2001 2002	499.8 480.4	104.0 117.4	81.6 80.4	4.6 4.2	1.9 1.2	42.1 41.8	0.4 0.9	26.1 21.7	156.7 150.2	760.5 747.9	104.0 117.4	81.6 80.4	42.1 41.8
2002	493 9	120 4	85.7	4.2	0.9	41.6	0.9	25.9	159 2	773.5	120.4	85.7	41.6
2004	500.5 490.9	111.9 112.9	82.1 82.1	3.8	1 4	41.4 42.0	0.7	23.8 24.6	153.1 155.3	765.5 759.1	111.9 112.9	82.1 82.1	41.4 42.5
2005	490.9	112.9	82.1	4.6	1.2	42.0	0.8	24.6	155.3	759.1	112.9	82.1	42.5
2006 2007	489.3 495.0 500.1	112.9 146.0	94.2 94.4	4.5 5.5	1.7 2.1 2.2	42.6 42.8 40.7	0.7 0.5	23.2 24.0	166.9 169.4 170.0	769.2 810.4	112.9 146.0 147.1	94.2 94.4 95.5	43.2 43.8 41.9
2008	500.1	147.1	94.4 95.5	6.0	2.2	40.7	0.5 0.6	25.0	170.0	817.2	147.1	95.5	41.9
2009 2010	473.9 484.2	147.2	84.4 86.8	5.9 5.3	2.4 2.1	41.9 41.5	0.1	28.5 30.7	163.3 166.5	784.5 805.4	147.2 154.8	85.0 87.2	43.4 43.3
2010 2011	484.2 467.7	154.8 161.8	86.8 87.9	5.3 5.6	2.1 2.1	41.5	0.1	30.7 32.6	166.5 168.3	805.4 797.8	154.8	87.2 88.8	43.3 42.4
2012	490.1	158.5	91.0	4.8	2.0	41.8	(s) (s) 0.0	32.5	172.1	820.8	161.8 158.5	92.2	42.4 44.2
2013	520.7	156.1	82.6	5.1	2.0	41.3	ò.ó	30.8		838.5	156 1	84.5	43.8
2014	489.3 487.2	142.3	93.4	5.8	1.7	41.2 41.8 41.3 39.9 41.2	0.0	30.2	171.0	802.6 773.0	142.3 126.4	95.4 83.1	43.8 42.3 44.2 44.7 42.4
2015 2016	487.2 457.3	126.4 132.5	81.2 76.5	4.1 4.1	1.8 1.6	41.2	0.0 0.0	30.1 29.0	158.4 152.6	772.0 742.4	120.4	83.1 79.1	44.2 44.7
2017	457.3 458.5	132.5 158.4	76.5 78.4	4.9	1.8	41.5 39.4	0.0 0.0	29.0 R 29.0	R 153.5	742.4 R 770.4	132.5 158.4	79.1 80.8	42.4
2018	455.7 410.2	175.6	86.6	5.3	1.7	37.2 36.8	0.0	R 27.9 R 27.3 R 24.4	H 158.9	R 790.3 R 737.6	175.6 172.2 R 168.4	89.0	40.1 39.7
2019 2020	410.2 388.3	172.2 R 168.4	83.0 _ 72.3	6.0 5.4	2.0 1.8	36.8 34.4	0.0 0.0	R 24.4	'' 155.1 R 138 3	R 695.0	1/2.2 R 168 4	85.3 74.5	39.7 37.1
2021	377.0	<sup>n</sup> 161.6	R 79.9	5.5	2.5	36.6	0.0	<sup>H</sup> 21.3	161.7 171.0 158.4 152.6 R 153.5 R 158.9 R 155.1 R 138.3 R 145.5	<sup>n</sup> 684.0	H 161.6	74.5 R 80.9	39.3 38.2
2022	390.3	172.5	79.6	6.0	2.0	35.7	0.0	21.4	144.5	707.3	172.5	80.5	38.2

a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
 d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Wyoming (continued) (trillion Btu)

							Renewable en	ergy							
					Bior	nass							Net		
Year	Nuclear electric power	Hydro- electric power <sup>e,f</sup>	Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co- products <sup>i</sup>	Total <sup>f</sup>	Geo- thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>	interstate flow of electricity <sup>k</sup>	Electricity net imports <sup> </sup>	Total <sup>f</sup>
1960	0.0	R 2.1	1.6	NA	NA	NA	NA	1.6	0.0	NA	NA	R 3.7	R -7.6	0.0	R 140.2
1965 1970	0.0 0.0	R 3.0 R 3.4	1.6 1.6	NA NA	NA NA	NA NA	NA NA	1.6 1.6	0.0 0.0	NA NA	NA NA	R 4.6 R 5.0	R -10.9 R -32.2	0.0 0.0	R 169.4 R 251.5
1971	0.0	R 4.5	1.6	NA	NA	NA	NA	1.6	0.0	NA	NA	R 5.0 R 6.1	R -32.2 R -26.7	0.0	R 251.5 R 264.2
1972 1973	0.0 0.0	R 4.0 R 4.1	1.3 1.5	NA NA	NA NA	NA NA	NA NA	1.3 1.5	0.0 0.0	NA NA	NA NA	R 5.3 R 5.6	R -43.0 R -61.2	0.0 0.0	R 282.6 R 279.1
1974	0.0	R 4.8	1.5	NA	NA NA	NA NA	NA NA	1.5	0.0	NA	NA	H 6.3	R -61.7 R -72.8	0.0	H 273.6
1975	0.0	R 3.8 R 3.6	1.6	NA	NA	NA	NA	1.6	0.0	NA	NA	R 5.4	R -72.8	0.0	H 271.8
1976 1977	0.0 0.0	R 2.6	1.7 2.0	NA NA	NA NA	NA NA	NA NA	1.7 2.0	0.0 0.0	NA NA	NA NA	R 5.3 R 4.6	R -111.2 R -146.0	0.0 0.0	R 295.0 R 320.9
1978	0.0	R 3.4	2.6	NA	NA	NA	NA	2.6	0.0	NA	NA	R 5.9	H -13/18	0.0	Ranaa
1979 1980	0.0 0.0	R 3.6 R 3.8	3.0	NA NA	NA NA	NA NA	NA NA	3.0 2.7	0.0 0.0	NA NA	NA NA	R 6.6 R 6.5	R -165.6 R -165.6	0.0 0.0	R 371.9 R 355.5
1981	0.0	R 2.9	2.7 3.3	(s)	NA	NA	0.0	3.3	0.0	NA	NA	H62	H -211 9	0.0	H 346.2
1982 1983	0.0 0.0	R 2.9 R 3.9	3.4	(s)	NA NA	NA NA	0.0 0.0	3.4	0.0 0.0	NA NA	NA (a)	R 6.3 R 7.6	R -223.5	0.0 0.0	R 354.8
1984	0.0	R 4.4	3.7 3.7	(s) (s)	NA NA	NA NA	0.0	3.7 3.7	0.0	0.0	(s) (s)	Rai	R -201.1 R -231.2	0.0	R 320.0 R 341.4
1985	0.0	R 3.6	3.8	(s)	NA	NA	0.0	3.8	0.0	0.0	(s)	R 7.5 R 8.2 R 5.7 R 5.9	H -268 3	0.0	H 2/12 1
1986 1987	0.0 0.0	R 3.9 R 2.6	4.3 3.1	(s) (s)	NA NA	NA NA	0.0 0.0	4.3 3.1	0.0 0.0	0.0 0.0	(s) (s)	n 8.2 R 5 7	R -207.2 R -289.3	0.0 0.0	R 327.0 R 356.0
1988	0.0	R 2.7	3.3	(s)	NA	NA	0.0	3.3	0.0	0.0	(s)	R 5.9	H -302.8	0.0	R 363.8 R 373.5
1989 1990	0.0	R 2.3	2.7	(s) 0.1	NA NA	NA NA	0.0 0.0	2.7 2.2	0.6 0.6	(s)	(s) (s) 0.0	H 5.7	R -274.2	0.0 0.0	H 373.5
1990	0.0 0.0	R 2.2 R 2.5	2.1 2.2	0.1	NA NA	NA NA	0.0	2.4	0.6	(s) (s)	0.0	R 5.7 R 5.0 R 5.6	R -291.0 R -282.1	0.0	R 397.9 R 386.5
1992	0.0	R 2 2	1.6	0.5	NA	NA	0.0	2.0	0.6	(s)	0.0	H49	H -319 7	0.0	H 420 2
1993 1994	0.0 0.0	R 2.7 R 3.1	1.4 1.7	0.5 0.6	NA NA	NA NA	0.0 0.1	2.0 2.4	0.6 0.6	(s)	0.0 0.0	R 5.3 R 6.2	R -298.3 R -323.1	0.0 0.0	R 405.2 R 406.2
1995	0.0	R 2.7	1.5	0.5	NA	NA	0.1	2.1	0.6	(s)	0.0	H 5 5	H -300 3	0.0	H 401.6
1996 1997	0.0 0.0	R 4.2 R 4.7	1.3 1.4	0.2	NA NA	NA NA	0.1 0.1	1.5 1.5	0.6 0.6	(s)	0.0 0.0	R 6.4 R 6.9	R -308.2 R -302.5	0.0 0.0	R 412.6 R 411.9
1997	0.0	R 4.6	1.4	(s) 0.0	NA NA	NA NA	0.1	1.4	0.6	(S)	0.0 (s)	R66	H -3/10 0	0.0	H 418 4
1999	0.0	R 4.0	1.3 1.3	0.0	NA	NA	0.1	1.4 1.5	0.7 0.7	(s)	R (s) R (s) R 0.8	R 6.1 R 6.5	R -328.8 R -338.9	0.0	R 422.9 R 425.4
2000 2001	0.0 0.0	R 3.4 R 3.0	1.3 0.9	0.0 0.0	NA (s)	NA NA	0.2 0.2	1.5 1.1	0.7 0.7	(S)	<sup>n</sup> 0.8 R <sub>1.2</sub>	R 6.5	H -330 9	0.0 0.0	H 435 7
2002	0.0	R 2 0	0.9	0.0	(s)	NA	0.3	1.1	0.7	(s)	R 1.2 P 1.5	R53	H -316.9	0.1	n 436.4
2003 2004	0.0 0.0	R 2.0 R 2.0	0.9 0.9	0.0 0.0	(s)	NA NA	0.3 0.3	1.2 1.2	0.7 0.7	(s)	R 1.3 R 2.1	R 5.2 R 6.1	R -319.6 R -323.2	0.1 -0.2	R 459.2 R 448.1
2005	0.0	Roa	2.4	0.0	(S) (S)	NA NA	0.3	3.3	0.7	(S) (S)	R <sub>2</sub> 4	R 9.2	H -314 4	-0.2	H 453.6
2006 2007	0.0	R 2.9 R 2.5	2.1 2.3	0.6	0.1	NA	0.3	3.0 3.6	0.7	(s)	R 2.6 R 2.6	R 9.1 R 9.4	R -303.6 R -299.3	-0.2	R 474 5
2007 2008	0.0 0.0	R 2.5	2.3 2.5	1.0 1.2	0.1 0.1	NA NA	0.3 0.3	3.6 4.2	0.6 0.6	(S)	<sup>n</sup> 2.6 R 3.3	R 10.9	R -299.3	-0.2 -0.1	R 520.2 R 534.0
2009	0.0	R 3.3	1.4	1.5	0.1	NA	0.4	3.3	0.6	(s)	R 3.3 R 7.6	R 1/10	R -294.0 R -283.2	-0.1	R 534.0 R 515.9
2010 2011	0.0 0.0	R 3.5 R 4.2	1.5 1.4	1.7 2.2	0.1 0.2	NA 0.0	0.4 0.6	3.7 4.4	0.6 0.7	(s)	R 11.1 R 15.7	R 18.9 R 25.0	R -293.7 R -279.9	-0.1	R 530.6 R 542.9
2012	0.0	R30		2.4	0.2	0.0	0.6	4.4	0.7	(s) (s)	R 14 9	н 23 4	R -305 4	(s) (s)	R 538 7
2013	0.0	H 2.4	1.2 1.5	2.6	0.2	0.0	0.7	5.1	0.7	(s)	H 15 1	н 23 3	H -33/1 3	(s)	H 527.5
2014 2015	0.0 0.0	R 3.0 R 3.0	1.6 4.9	2.4 3.0	0.5 0.2	0.0 0.0	0.7 0.5	5.2 8.6	0.7 0.7	(S)	R 15.0 R 12.8	R 23.8 R 25.1	R -303.3 R -301.6	(s) (s)	R 523.1 R 495.4
2016	0.0	R 3 3	4.4	3.2	0.8	0.0	0.0	8.3	0.7	(s)	H 15 0	H 27 3	H_272 2	(s)	H 491 4
2017 2018	0.0 0.0	R 3.8 R 3.3	5.0 4.9	3.0 2.9	0.5 0.6	0.0 0.0	0.0 0.0	8.6 8.4	0.7 0.7	(s) R (s)	R 14.7 R 13.8	R 27.8 R 26.3	R -277.5 R -271.9	(s) (s)	R 520.7 R 544.6
2019	0.0	R34	5.0	2.9	1.0	0.0	0.0	8.9 R 7.5	0.7	n 0 6	R 14 2	R 27 8	R _232 A	Ò.Ó	R 533 0
2020	0.0	R 3.7 R 2.7	R 3.9 R 3.7	2.7	0.9	0.0	0.0	R 7.5 R 7.0	0.7	R 0.6 R 0.7	R 18.8 R 28.8	R 31.3 R 39.9	R -241.6 R -241.4	0.0	R 484.6
2021 2022	0.0 0.0	2.7 2.5	7 3.7 5.3	2.7 2.5	0.6 0.3	0.0 0.0	0.0 0.0	7.0 8.1	0.7 0.7	0.7	7 28.8 33.4	139.9 45.4	-241.4 -256.5	0.0 0.0	R 482.4 496.2
	0.0	2.0	0.0	2.0	0.0	0.0	0.0	<b>3.</b> I	<b>5.</b> 7	<b>3.</b> 1	33.4	.01	200.0	0.0	

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

† There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy

sources beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes. Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy.

k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

| Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per

kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

The components due to independent rounding. The components due to independent rounding. Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Wyoming

						Petroleum					Rion	nass						
					. 1					Hydro-	БЮ	liass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Motor gasoline <sup>e</sup>	Residual fuel oil	Other <sup>f</sup>	Total	electric power g,h					Electricity		Electrical	
Year	Thousand short tons	Billion cubic feet			1	Thousand barrels	3			Million kilowatt- hours	Wood and waste <sup>h,i</sup>	Losses and co- products j	Geo- thermal <sup>h</sup>	Solar <sup>h,k</sup>	Million kilowatt- hours	End use <sup>h,m</sup>	system energy losses <sup>n</sup>	Total <sup>h,m</sup>
1960	178	50	3,272	1,114	56	4,431	1,743	2,874	13,491	0					719			
1970	231	108	5,045	1,848	128	5,900	1,476	4,137	18,534	0					3,156			
1980	1,710	69 92	13,124	2,030	162	8,501	2,171	4,848	30,836	0					7,169			
1990 2000	1,987 2,050	92	9,209 12,534	1,263 1,217	143 286	7,105 7,799	39 23	4,168 4,145	21,927 26,004	0					11,769 12,368			
2005	1,666	108	14,035	1,241	204	8,187	133	4,051	27,850	0					14,138			
2006	1,736	108	16,150	1,212	292	8,329	111	3,855	29,949	0					14,947			
2007	1,796	139	16,244	1,469	378	8,523	76	3,957	30,648	0					15,536			
2008 2009	1,787 1,578	142 142	16,443 14,631	1,595 1,539	393 431	8,208 8,533	89 23	4,094 4,625	30,821 29,780	0					16,690 16,562			
2009	1,605	150	15,000	1,339	363	8,541	16	4,025	30,240	0					17,113			
2011	1,704	156	15,295	1,461	364	8,378	(s)	5,242	30,740	0					17,118			
2012	1,605	153	15,901	1,245	346	8,735	1	5,236	31,464	0					16,971			
2013	1,615	149	14,588	1,324	348	8,663	0	4,964	29,888	0					17,054			
2014	1,653	136	16,489	1,514	294	8,369	0	4,863	31,528	0					17,134			
2015 2016	1,504 1,621	118 122	14,351 13,662	1,076 1,065	321 283	8,740 8,838	0	4,849 R 4,582	29,337 R 28,430	0					16,925 16,555			
2016	1,624	148	13,968	1,065	323	8,838	0	R 4,579	R 28,552	0					16,555			
2018	1,591	164	15,385	1,386	308	7,932	0	R 4,415	R 29,426	0					16,865			
2019	1,566	157	14,746	1,553	351	7,858	0	R 4,331	R 28,838	0					16,763			
2020	1,213	R 151	12,867	1,415	310	7,345	0	R 3,874	R 25.811	0					15,331			
2021	1,299	145	R 13,925	1,429	442	7,791	0	R 3,360	R 26,946	0					15,785			
2022	1,373	153	13,876	1,556	361	7,559	0	3,371	26,723	0					16,499			
									Trillion	Btu								
1960	3.7	52.1	19.1	4.3	0.3	23.3	11.0	17.6	75.4	0.0	1.6	NA	NA	NA	2.5	135.3	R <sub>4.9</sub>	R 140.2
1970	4.5	110.1	29.4	7.0	0.7	31.0	9.3	25.2	102.5	0.0	1.6		NA	NA	10.8		R 22.1	R 251.5
1980	30.7	72.9	76.4	7.4	0.9	44.7	13.6	29.7	172.8	0.0	2.7		NA	NA	24.5		R 52.0	R 355.5
1990 2000	43.8 41.2	101.2 104.1	53.6 72.9	4.6 4.4	0.8 1.6	37.3 40.6	0.2 0.1	25.7 25.7	122.3 145.3	0.0	2.1 1.3	0.0 0.2	0.6 0.7	(s) (s)	40.2 42.2		R 87.7 R 90.3	R 397.9 R 425.4
2005	32.8	112.3	81.7	4.6	1.2	42.5	0.1	24.6	155.4	0.0	2.4		0.7	(s)	48.2		R 101.4	R 453.6
2006	34.3	112.1	93.7	4.5	1.7	43.2	0.7	23.2	166.9	0.0	2.1	0.3	0.7	(s)	51.0		R 107.0	R 474.5
2007	35.5	144.0	94.0	5.5	2.1	43.8	0.5	24.0	169.9	0.0	2.3	0.3	0.6	(s)	53.0	405.8	R 114.4	R 520.2
2008	35.2	146.1	95.0	6.0	2.2	41.9	0.6	25.0	170.7	0.0	2.5		0.6		56.9	412.4	R 121.6	R 534.0
2009	31.0	146.2	84.5	5.9	2.4	43.4	0.1	28.5	164.9	0.0	1.4		0.6		56.5	400.9	R 115.6	R 516.5
2010 2011	31.6 33.1	154.2 161.4	86.6 88.2	5.3 5.6	2.1 2.1	43.3 42.4	0.1 (s)	30.7 32.6	168.0 170.9	0.0	1.5 1.4		0.6 0.7	(s) (s)	58.4 59.4	414.6 427.5	R 116.3 R 116.1	R 530.9 R 543.6
2011	31.5	158.1	91.7	4.8	2.1	44.2	(s)	32.5	170.9	0.0	1.4		0.7		57.9		R 114.2	R 539.5
2012	31.9	155.6	84.1	5.1	2.0	43.8	0.0	30.8	165.8	0.0	1.5		0.7	(s)	58.2		R 114.9	R 529.2
2014	32.4	141.4	95.0	5.8	1.7	42.3	0.0	30.2	175.0	0.0	1.6	0.7	0.7	(s)	58.5	410.2	R 114.4	R 524.6
2015	29.5	125.1	82.7	4.1	1.8	44.2	0.0	30.1	162.9	0.0	4.9		0.7	(s)	57.7	R 381.3	R 115.8	R 497.1
2016	32.2	130.9	78.7	4.1	1.6	44.7	0.0	29.0 B oo o	158.0	0.0	4.4		0.7	(s)	56.5	R 382.6	R 110.6	R 493.3
2017 2018	31.8 31.5	157.0 173.7	80.4 88.6	4.9 5.3	1.8 1.7	42.4 40.1	0.0	R 29.0 R 27.9	R 158.6 R 163.7	0.0	5.0 4.9		0.7 0.7	(s) R (s)	57.2 57.5		R 112.3 R 114.3	R 522.6 R 546.4
2019	31.0	168.8	84.9	6.0	2.0	39.7	0.0	R 27.3	R 159.9	0.0	4.9 5.0			R (s)	57.5 57.2		R 111.8	R 534.2
2020	24.0	R 162.4	74.1	5.4	1.8	37.1	0.0	R 24.4	R 142.8	0.0	R 3.9	0.0	0.7	R (s)	52.3	H 386.1	R 99.9	R 486.0
2021	26.3	R 153.2	R 80.3	5.5	2.5	39.3	0.0	R 21.3	R 148.9	0.0	R 3.7	0.0	0.7	R 0.1	53.9	R 386.7	R 96.4	R 483.2
2022	27.5	161.9	80.0	6.0	2.0	38.2	0.0	21.4	147.5	0.0	5.3	0.0	0.7	0.1	56.3	399.3	97.7	497.0

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.

Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."

e Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>9</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste

J Losses and co-products from the production of biodiesel and fuel ethanol.

k Solar thermal and photovoltaic energy.

<sup>&</sup>lt;sup>1</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>&</sup>lt;sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.

<sup>&</sup>lt;sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology. —— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Wyoming

				Petro	oleum		Biomass						
	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total				Electricity <sup>g</sup>		Electrical system	
Year	Thousand short tons	Billion cubic feet		Thousar	nd barrels		Wood d	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Million kilowatthours	End use e,h	energy losses	Total <sup>e,h</sup>
1960	34	9	4	461	8	472				275			
1965	34 25 12	11	7	461 437	32 39	472 475				442			
1970	12	18	12	822	39	874				604			
1975	15	12	12 26 23 45	788	11	826				891			
1980	22	10	23	529	0	552				1,410			
1985	24	14	45	408	8	461				1,815			
1990 1995	26 19	11 12	24 47	400 486		426 534				1,720 1,939			
2000	15	12	26	416	1	444				2,103			
2005	6	12	31	604	i	636				2,377			
2006	5	12	38	545	i	584				2.468			
2007	6	12 12 12	31	941 933	1	972				2,592			
2008	0	13	16	933	(s)	950				2.719			
2009 2010	Q	13 13	23 25 22	1,027 869	(s) (s)	1,050 895				2,720 2,727			
2010	0	13	25	869	(s)	895				2,727			
2011	0	13	22	937	(S)	959 713				2,803			
2012 2013	0	12 14	23 31	690 747	(s) (s)	713 779				2,717 2,829			
2013	0	13	21	747	(8)	819				2,029			
2015	ő	13 12 12	21 25 20	798 567	\s\ s\	592				2,752 2,677			==
2016	Ŏ	12	20	676	(s)	696				2.751			
2017	0	13	20	913	(s)	933 873				2.772			
2018	0	13 14	20 19	853 915	(s)	873				2,748 2,849			
2019	0	14	19	915	(s)	933				2,849			
2020 2021	0	13 13	13 22	779 873	(s)	792 895				2,880			
2021	0	13	22	867	(s) (s)	895 890				2,897 3,009			
2022	0	13	23	007	(5)	090	Trillion Btu			3,009			
1960	0.7	9.1	(s)	1.8	(s) 0.2	1.8	1.2	NA	NA	0.9	13.8	R 1.9	R 15.7
1965 1970	0.5	9.9 18.4	(s) 0.1	1.7 3.2	0.2 0.2	1.9 3.5	1.0 1.0	NA NA	NA NA	1.5	14.9 25.1	R 3.0 R 4.2	n 17.8
1970	0.2 0.3	18.4	0.1	3.2	0.2	3.5	1.0	NA NA	NA NA	1.5 2.1 3.0	19.0	R 6.2	R 25.3
1980	0.4	10.3	0.2	2.0	0.0	2.2	1.1	NA NA	NA NA	3.0 4.8	19.1	H 10 2	R 20.4
1985	0.4	15.1	0.3	1.6	(s)	1.9	1.5 2.3	NA	NA	4.8 6.2	25.8	R 12.6 R 12.8 R 14.5	R 13.7 R 17.8 R 29.3 R 25.2 R 29.4 R 38.3
1990	0.5	12.6	0.1	1.5	(s)	1.7	1.0	0.0		5.9	21.7	R 12.8	R 34.5 R 37.4
1995	0.5 0.3	12.6 12.9 12.7	0.3	1.9	(s)	2.1	1.0 1.0	0.0	(s) (s)	5.9 6.6	23.0	R 14.5	R 37.4
2000	0.3	12.7	0.2	1.6	(s)	1.8	1.0	(s)	(s)	7.2	23.0	R 15.4 R 17.0	R 38.4 R 41.9
2005	0.1	12.2	0.2	2.3	(s)	2.5	1.9	(s) (s) (s) (s) (s) 0.1	(s)	8.1	24.8	H 17.0	H 41.9
2006 2007	0.1	12.2 12.8	0.2 0.2	2.1 3.6	(s)	2.3 3.8	1.7 1.9	(s)	(s)	8.4 8.8	24.7 27.5	R 17.7 R 19.1	R 42.4 R 46.6 R 48.7
2007	0.1 0.0	12.8	0.2	3.6	(S)	3.8	2.1	(S)	(s) (s)	8.8	27.5 28.9	R 19.8	H 40.0
2009	0.0	13.1	0.1	3.9	(s)	4.1	1.1	(5)	(s)	9.3	27.6	R 10.0	R 46.7
2010	0.0	13.3	0.1	3.3	(s)	3.5	1.2	0.1	(s)	9.3 9.3 9.3	27.4	R 19.0 R 18.5	R 46.6 R 45.9
2011	0.0	13.7	0.1	3.6	(s)	3.7	1.2	0.1	(s)	9.6	28.3	R 18.7	R 46.9
2011 2012	0.0 0.0	13.7 11.9	0.1	2.7	(s)	3.7 2.8	1.2 1.0	0.1	(s)	9.6 9.3 9.7	28.3 25.0	R 18.7 R 18.3 R 19.1	R 46.9 R 43.3 R 47.3
2013	0.0	14.2	0.2	2.9	(s)	3.1	1.3	0.1	(s)	9.7	28.3	R 19.1	R 47.3
2014 2015	0.0 0.0	13.8 12.3	0.1	3.1 2.2	(s)	3.2 2.3	1.3 4.2	0.1	(s)	9.4	27.8	R 18.4 R 18.3	R 46.1 R 46.3 R 47.1 R 49.2
2015	0.0	12.3	0.1	2.2	(s)	2.3	4.2	0.1	(s)	9.1	28.0	R 18.3 R 18.4	n 46.3
2016 2017	0.0 0.0	12.9 13.3	0.1 0.1	2.6 3.5	(S)	2.7 3.6	3.6	0.1 0.1	(s) (s)	9.4 9.5	28.7 _ 30.7	H 18.4 R 18.6	" 4/.1 B 40.2
2017	0.0	14.0	0.1	3.3	(S) (S)	3.4	3.6 4.2 4.2	0.1	(s)	9.5 9.4	R 31.0	R 18 6	R 10 7
2019	0.0	15.1	0.1	3.5	(s)	3.6	4.3	0.1	R (s)	9.7	32.8	R 19.0	R 49.7 R 51.8
2020 2021	0.0 0.0	13.9	0.1	3.0	(s)	3.1	R 3.1 R 3.0	0.1	R (s) R (s)	9.8 9.9	R 30.0	R 18.8	R 48.8
2021	0.0	13.9 13.6	0.1	3.0 3.4	(s)	3.1 3.5	R 3.0	0.1	0.1	9.9	32.8 R 30.0 R 30.0	R 19.0 R 18.8 R 17.7	R 48.8 R 47.7
2022	0.0	14.2	0.1	3.3	(s)	3.5	4.4	0.1	0.1	10.3	32.5	17.8	50.3

a Beginning in 2008, data are no longer collected and are assumed to be zero.
 b Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

d Wood and wood-derived fuels.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial

g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 h Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

i Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Wyoming

					Pet	roleum				Biomass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL b	Kerosene	Motor gasoline <sup>c</sup>	Residual fuel oil	Total d	Hydro- electric power <sup>e,f</sup>			Solar <sup>f,h</sup>	Electricity <sup>i</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousa	and barrels			Million kilowatthours	Wood and waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Mill kilowat	lion tthours	End use <sup>f,j</sup>	system energy losses <sup>k</sup>	Total <sup>f,j</sup>
1960	23 19	5	9	199	29	73 73	37 40	347	NA			NA	174			
1965 1970	19 9	8 14	16 30	189 356	119 147	73 85	40 48	437 666	NA NA			NA NA	594 657			
1975	35	10	63	341	43	72 103	83	602 809	NA			NA	775			
1980 1985	35 83 83	5 9	428 394	229 176	43 23 6	103 67	83 27 69	809 713	NA NA			NA NA	1,138 2,321			
1990	104	8	218	173	1	74	1	467	0			0	2,319			
1995 2000	127	10	265	210	2	8	(s)	485	0			0	2,443			
2000 2005 2006	123 64	10 9	401 95	180 338 222	(s) (s)	306 348	(s) 0	589 740 663	0			0	2,945 3,754			
2006	47	9	95 93	222	1	348	0	663	0			0	4,117			
2007 2008	53 25 25	9 10	87 113	216 387	(s) (s)	429 336	0	732 836	0			0	4,214 4,411			
2009	25	10	150	411	1	293	Ō	855	Ō			Ō	4,288			
2010 2011	26 28	11 12	246 380	371 380	1 (s)	284 609	0	902 1,369	0			0	4,317 4,353			
2012	24	10	424	441	(s) (s)	367	1	1,233	ŏ			(s)	4,245			
2013 2014	27 21	12 12	340 318	425 571		379 311	0	1,144 1,200	0			1	4,067 4,000			
2014	8	13	268	387	(s) 1	437	0	1.093	0			i	3.925			
2016	7	13	289 268	290	(s)	383	0	963 643	0			1	3,762			
2017 2018	12 8	14 14	268 175	287 245	(s) (s)	87 95	0	643 515	0			2	3,762 3,757			
2019	6	13	181	493	(s)	95	Ö	769	Ö			2	3,575			
2020 2021	2 6	12 12	180 R 280	457 256	(s) (s)	96 97	0	732 633	0			2	3,320 3,443			 
2022	9	13	285	325	(s)	369	ŏ	979	ő			3	3,611			
								Tri	lion Btu							
1960 1965 1970	0.5 0.4 0.2	5.1 7.4	0.1	0.8 0.7	0.2	0.4	0.2 0.2 0.3	1.6	NA	(s) (s)	NA	NA	0.6	7.8	R 1.2 R 4.0	R 9.0
1965 1970	0.4	7.4 14.3	0.1 0.2	0.7 1.4	0.7 0.8	0.4 0.4	0.2	2.1 3.1	NA NA	(s) (s)	NA NA	NA NA	2.0 2.2	12.0 19.9	RAG	R 16.0 R 24.5
1975	0.6	9.6	0.4	1.3	0.2	0.4	0.5	2.8	NA	(s)	NA	NA	2.6	15.7	R 5.4	R 21.1
1980 1985	1.5 1.4	5.3 9.6	2.5 2.3	0.9 0.7	0.1 (s)	0.5 0.4	0.2 0.4	4.2 3.8	NA NA	(s) 0.1	NA NA	NA NA	3.9 7.9	14.9 22.7	R 8.3 R 16.1	R 23.1 R 38.8
1990 1995	2.1 2.3	9.3	1.3	0.7	(s)	0.4	(s)	2.3 2.4	0.0	0.1	0.6	0.0	7.9	22.3 24.3	R 17.3 R 18.2 R 21.5	R 39.6 R 42.5
1995 2000	2.3 2.5	10.5 10.2	1.3 1.5 2.3	0.8 0.7	(s) (s)	(s)	(s)	2.4 3.1	0.0 0.0	0.1 0.2	0.6 0.6	0.0 0.0	8.3 10.0	24.3 26.6	H 18.2	R 42.5 R 48.1
2005	1.1	9.6	0.6	1.3	(s)	(s) 1.6	(s) 0.0	3.4	0.0	0.2	0.6	0.0	12.8	28.0	H 26 0	R 54.9
2006	0.8	9.9	0.5	0.9	(s)	1.8	0.0	3.2	0.0	0.3	0.7	0.0	14.0	28.9	R 29.5 R 31.0 R 32.1 R 29.9	R 58 4
2007 2008	0.9 0.6	9.8 10.5	0.5 0.7	0.8 1.5	(s)	2.2 1.7	0.0 0.0	3.5 3.9	0.0 0.0	0.3	0.6 0.4	0.0 0.0	14.4 15.1	29.6 30.7	R 31.0	R 60.6 R 62.9 R 60.3
2009	0.5	10.7	0.9	1.6	(s)	1.5	0.0	3.9	0.0	0.3 0.2	0.5	0.0	14.6	30.4	R 29.9	R 60.3
2010	0.5 0.5	11.5 12.1	1.4 2.2	1.4 1.5	(s)	1.4 3.1	0.0 0.0	4.3 6.7	0.0 0.0	0.2 0.2	0.5 0.5	0.0 0.0	14.7 14.9	31.6 _ 34.9	n 29 3	R 61.0 R 63.9
2011 2012	0.5	10.8	2.4	17	(s) (s)	1.9	(s) 0.0	6.0	0.0	0.1	0.5	(s)	14.5	H 32.4	R 29.0 R 28.6	R 61 0
2013	0.5 0.4	12.5	2.0	1.6 2.2	(s)	1.9		5.5	0.0	0.2	0.5	(s)	13.9	33.1	R 27.4 R 26.7	R 60.5 R 59.8
2014 2015	0.4 0.2	12.7 13.7	1.8 1.5	2.2 1.5	(s) (s)	1.6 2.2	0.0 0.0	5.6 5.2	0.0 0.0	0.2 0.6	0.5 0.5	(s) (s)	13.6 13.4	33.0 33.7	<sup>n</sup> 26.9	R 59.8 R 60.5
2016	0.1	14.4	1.7	1.1	(s)	1.9	0.0	4.7	0.0	0.6	0.5	(s)	12.8	33.3	R 25.1 R 25.2	R 58.4
2017 2018	0.3 0.2	14.8 14.6	1.5 1.0	1.1 0.9	(s) (s)	0.4 0.5	0.0 0.0	3.1 2.4	0.0 0.0	0.8 0.6	0.5 0.5	(s)	12.8 12.8	32.3 R 31.2	n 25.2 R 25.5	R 57.5 R 56.7
2019	0.1	14.0	1.0	1.9	(s)	0.5	0.0	3.4	0.0	0.6	0.5	(s)	12.2	30.9	R 25.5 R 23.8 R 21.6	R 54 7
2020 2021	(s) 0.1	13.2 13.0	1.0 1.6	1.8 1.0	(s) (s)	0.5 0.5	0.0 0.0	3.3 3.1	0.0 0.0	0.7 0.7	0.5 0.5	(s) (s)	11.3 11.7	29.1 29.2	<sup>R</sup> 21.6 <sup>R</sup> 21.0	R 50.7 R 50.2
2021	0.1	13.7	1.6	1.0	(S) (S)	1.9	0.0	4.8	0.0	0.7	0.5	(S) (S)	12.3	29.2 32.4	21.4	53.7
					. ,							```				

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.

b Hydrocarbon gas liquids, assumed to be propane only.

Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes small amounts of petroleum coke not shown separately.

<sup>&</sup>lt;sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

—— = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Wyoming

					Petrol	eum				Bio	nass						
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil	HGL <sup>b</sup>	Motor gasoline <sup>c</sup>	Residual fuel oil	Other <sup>d</sup>	Total	Hydro- electric power <sup>e,f</sup>		Losses		Solar <sup>f,i</sup>	Electricity <sup>j</sup>		Electrical	
Year	Thousand short tons	Billion cubic feet			Thousand	l barrels			Million kWh	Wood and waste f,g	and co- products h	Geo- thermal <sup>f</sup>		llion Wh	End use <sup>f,k</sup>	system energy losses	Total f,k
1960	119	35	1,458	384 496	320 510	756 942	2,615	5,534	0				NA	270			
1960 1965	124	35 38	1,790	496	510	942	3,102	6,841	Ō				NA	1,285			
1970 1975	210 640	70 59	1,931 3,596	578 569	552 591	960 1,881	3,610 3,915	7,631 10,552	0	==			NA NA	1,896 2,918			
1980	1,605	48	6,255	1,199	365	2 144	4.566	14.529	0				NA NA	4,621			
1985 1990	1,875	54 67	2 463	1,312	530	142 39 20	3,884 3,977	8,331 7,391	ő				NA	6,212			
1990	1,857	67	2,296	663	417	39	3,977	7,391	0				0				
1995 2000	1,937 1,913	68	1,898 3,370	1,265 611	443 240	20	2,946 3,708	6,572 7,952	0				0	6,817 7,321			
2005	1,513	63 73	3,133	291	492	133	3,669	7,718	0				0	8,007			
2006	1.685	73	4,736	438	513	111	3 474	9,273	ŏ				ő	8,362			
2007	1,738 1,762	102	4,609	305	315	76	3,633 3,723	8,938	0				0	8,730			
2008 2009	1,762	101 99	5,412 4,930	238 94	282 279	89 23	3,723	9,744 9,608	0				0	9,560 9,554			
2010	1,553 1,579	105	5,019	126	220	16	4,282 4,775	10,156	0				0	10,069			
2011	1.675	113	5,825	140	202	(s) 0	5.088	11.255	ő				ŏ	10.262			
2012	1,581 1,588	114	5,699	110	210		5,083 4,816	11,103	0				(s)	10,009			
2013	1,588	108	4,891	148	213	0	4,816	10,067	0				(s)	10,157			
2014 2015	1,632 1,496	95 81	5,918 4,663	140 117	136 237	0	4,696 _ 4,689	10,891 _ 9,705	0				(s)	10,381 10,323			
2016	1,614	84	3,802	94	234	0	R 4 430	H 8.559	0				(s)	10,041			
2017	1,611	108	4,202	78	235	0	R 4 442	R 8,957 R 9,791	0				(s)	10,244			
2018	1,583	121	4,989	286	238	0	R 4,278 R 4,193	H 9,791	0				(s)	10,359			
2019 2020	1,559 1,211	117 113	3,938 3,145	137 174	245 241	0	R 3,751	R 8,513 R 7,312	0				(s)	10,339 9,131			
2021	1,293	107	4,274	298	237	0	R 3,174	R 7,983	0	==	==	==	(s)	9,444	==		==
2022	1,364	114	4,320	358	259	0	3,205	8,142	0				`1	9,880			
									Trillion Bt	u							
1960	2.4 2.5	36.1 35.2	8.5	1.5	1.7	4.8	16.1	32.5	0.0	0.4	NA	NA	NA	0.9		R 1.9	R 74.2 R 91.2 R 140.2 R 159.4
1965	2.5	35.2	10.4	1.9	2.7	5.9	19.1	40.0	0.0		NA	NA	NA		82.6	R 8.6	<sup>H</sup> 91.2
1970 1975	4.0 11.8	71.3 55.2	11.2 20.9	2.1 2.0	2.9 3.1	6.0 11.8	22.3 23.9	44.6 61.7	0.0 0.0		NA NA	NA NA	NA NA		127.0 139.1	R 13.3 R 20.3	1 140.2 R 150 4
1980	28.8	51.1	36.4	4.2	1.9	13.5	28.1	84.2	0.0		NA NA	NA NA	NA NA	15.8	181.0	R 33 5	n 214.6
1985	32.9	56.3	14.3	4.5	2.8	0.9	24.8	47.3	0.0	1.5	0.0	NA	NA	21.2	159.1	R 43.1 R 57.6	R 202.1 R 242.6
1990	41.2	73.8	13.4	2.3	2.2	0.2	24.5	42.6	0.0		0.0	(s)	0.0	26.4	185.0	H 57.6	H 242.6
1995 2000	42.5 38.5	72.6 66.4	11.0	4.4 2.1	2.3 1.3	0.1 0.1	18.2	36.0 46.4	0.0		0.1 0.2	(s) (s)	0.0		175.0 176.6	R 50.8 R 53.5 R 57.4	R 225.8 R 230.0 R 237.7
2005	31.6	75.8	19.6 18.2	1.0	2.6	0.1	23.3 22.5	45.1	0.0	0.1	0.3	(s)	0.0	27.3	180.3	R 57.4	R 237.7
2006	33.4	75.6	27.5	1.5	2.7	0.7	21.2	53.5	0.0	0.1	0.3 0.3	(s)	0.0	28.5	191.4	H 59.9	<sup>n</sup> 251.3
2007	34.5	106.2	26.7	1.0	1.6	0.5	22.2	52.0	0.0		0.3	(s)	0.0		222.9	R 64.3	R 287.2
2008 2009	34.6 30.5	104.2 102.3	31.3 28.5	0.8	1.4 1.4	0.6 0.1	23.0	57.1 57.0	0.0 0.0		0.3 0.4	0.1 0.1	0.0 0.0		229.0	R 69.6	R 298.6
2009	31.1	102.3	29.0	0.3 0.5	1.4	0.1	26.7 29.7	60.3	0.0		0.4	0.1	0.0	34.4	222.9 234.2	R 66.7 R 68.4	R 289.6 R 302.6
2011	32.6	117.0	33.6	0.5	1.0		31.7	66.8	0.0		0.6	0.1	0.0		252.2	H 68 4	H 320.6
2012	31.1	118.1	32.9	0.4	1.1	(s) 0.0	31.6	66.0	0.0		0.7	0.1	(s)	34.2	250.2	R 67.3 R 68.4	R 317.5
2013	31.4	112.9	28.2	0.6	1.1	0.0	29.9	59.7	0.0		0.7	0.1	(s)	34.7	239.6	H 68.4	R 308.0
2014 2015	31.9 29.3	98.9 85.4	34.1 26.9	0.5 0.4	0.7 1.2	0.0 0.0	29.2 29.1	64.5 57.6	0.0 0.0		0.7 0.5	0.1 0.1	(S)	35.4 35.2	231./ R 208.2	11 69.3 R 70.6	R 278 a
2016	32.1	90.1	21.9	0.4	1.2	0.0	28 1	51.5	0.0	0.1	0.5 0.0	0.1	(s) (s)	34.3	231.7 R 208.2 208.1	R 69.3 R 70.6 R 67.1	R 301.0 R 278.9 R 275.2
2017	31.5	114.4	24.2	0.3	1.2	0.0	R 28 1	R 53 8	0.0	0.1	0.0	0.1	(s)	35.0	H 234 9	H 68 6	R 303.4 R 324.1
2018	31.3	128.9	28.7	1.1	1.2	0.0	R 27.1	R 58.1	0.0		0.0	0.1	(s)	35.3	H 253.9	R 70.2	H 324.1
2019 2020	30.8 23.9	125.5 R 121.0	22.7 18.1	0.5 0.7	1.2 1.2	0.0 0.0	R 26.5	R 50.9	0.0		0.0 0.0	0.1 0.1	(s)	35.3 31.2	R 242.6 R 219.9	R 68.9	R 311.5
2021	26.2	R 112.9	24.6	1.1	1.2	0.0	R 23.7 R 20.2	R 43.7 R 47.2	0.0		0.0	0.1	(s) (s)	32.2	218.7	R 59.5 R 57.7	R 279.3 R 276.4
2022	27.3	120.7	24.9	1.4	1.3	0.0	20.4	48.0	0.0		0.0	0.1	(s)	33.7	229.8	58.5	288.3

a Includes supplemental gaseous fuels that are commingled with natural gas.

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.

b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4.

e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

Incurred in the generation, transmission, and distribution of électricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

Not examples in methodology.

Wh = Kilowatthours. — = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: • Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

W Table CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Wyoming

							Pe	etroleum							
		Coal	Natural gas <sup>a</sup>	Aviation gasoline	Distillate fuel oil <sup>b</sup>	HGL <sup>c</sup>	Jet fuel <sup>d</sup>	Lubricants	Motor gasoline <sup>e</sup>	Residual fuel oil	Total	Electricity <sup>f</sup>		Electrical system	
_\	/ear	Thousand short tons	Billion cubic feet				Thou	sand barrels				Million kilowatthours	End use g,h	energy losses i	Total <sup>g,h</sup>
19	60	2	2 2	132	1,801	70	56 74	91	4,038	951	7,138	0			
19 19	65 70	(s) (s)	2 6	217 256	1,864 3,072	49 91	74 128	81 85	4,157 5,262	1,173 469	7,615 9,363	0			
19	75	(s)	5	218	3.965	116	124	108	6.691	0	11 223	Ö			
19	80 85	`Ó 0	6 5	108	6,419 4,172	73 45	162 154	151 137 154	8,034 7,073	0 (s)	14,946 11,632 13,643	0			
19	90	ŏ	5	51 35	6,671	45 27	154 143	154	6 613	0	13,643	Ŏ			
19:	95 nn	0	7 14	179 277	7,985 8,737	17 10	160 286	147 157	7,486 7,551 7,389	0	15,974 17,019	0			
20	05	0	14	248	10.776	7	204	133	7,389	0	18,756	0			
20	06 07	0	14 15	250 190	11,283 11,518	6	292 378	129 133	7,468 7,779	0	19,429	0			 
20	08	ŏ	17	246	10,902	37	393	124	7,591 7,960	Ö	20,005 19,292	Ő			
20 20	09	0	19 21	231	9,527 9,710	6	431 363	111 143	7,960 8,038	0	18,266 18,288	0			
20	11	0	18	30 28	9,067	4	364	126	7,567	Ō	17,157	0			
20 20	12	0	17 15	24	9 755	3	346	128	8 159	0	18 415	0			
20	14	0	15	21 31	9,325 10,232	4	348 294	127 136	8,072 7,922	0	17,897 18,618	0			
20	15	0	13	20	9 395	6	321	140	8.066	0	17,947	0			
20 20	16 17	0	13 14	19 17	9,551 9,477	5 6	283 323	R 133 R 119	8,221 8,078	0	17,947 R 18,212 18,019	0			
20	18	Ö	15	19 22 21 21	10.202	2	308	R 117 R 116	7,598 7,518 7,008 7,457	0	R 18,247 R 18,623 R 16,975 R 17,434	0			
20 20	19 20	0	13 13	22 21	10,609 9,529	/ 4	351 310	<sup>n</sup> 116	7,518 7,008	0	<sup>n</sup> 18,623 R 16,975	0			
20	21	Õ	13	21	9,529 R 9,348	2	442	102 R 105	7,457	Ó	R 17,434	Ö			
20	22	0	13	22	9,248	5	361	109	6,930	0	16,711	0			
_									Ilion Btu						
19 19 19 19	60 65	(s) (s) (s)	1.8 2.0	0.7 1.1	10.5	0.3 0.2	0.3 0.4 0.7	0.5 0.5	21.2 21.8	6.0 7.4	39.5 42.2 51.4	0.0 0.0	41.3 44.3	0.0 0.0	41.3 44.3 57.4
19	70	(s)	6.0	1.3	10.9 17.9	0.4	0.7	0.5	27.6	2.9	51.4	0.0	57.4	0.0	57.4
19 <sup>1</sup>	75	(s) 0.0	4.9 6.2 5.2	1.1	23.1 37.4	0.4 0.3	0.7 0.9	0.7 0.9	35.2 42.2	0.0 0.0	61.1 82.2	0.0 0.0	66.1 88.4	0.0 0.0	66.1 88.4
19	85	0.0	5.2	0.5 0.3 0.2 0.9	24.3	0.2	0.9	0.8	37.2	(s)	63.6	0.0	68.8	0.0	68.8
19: 19:	90	0.0 0.0	5.6 7.7	0.2	38.9 46.5	0.1 0.1	0.8 0.9	0.9 0.9	34.7 39.0	0.0 0.0	75.6 88.2	0.0 0.0	81.2 95.9	0.0 0.0	81.2 95.9
20	00	0.0	14.8	1.4	50.8	(s)	1.6	1.0	39.3	0.0	94.1	0.0	108.9	0.0	108.9
20	05	0.0	14.8	1.4 1.3 1.3	50.8 62.7 65.5	(s)	1.6 1.2	0.8	38.4 38.7	0.0	104.3	0.0	119.1	0.0	119.1
20 20	07	0.0 0.0	14.4 15.2	1.3	66.6	(s) (s)	1.7 2.1	0.8 0.8	38.7 40.0	0.0 0.0	107.9 110.6	0.0 0.0	122.4 125.8	0.0 0.0	122.4 125.8
20	08	0.0	17.6	1.0 1.2 1.2	63.0 55.0	0.1	2.1 2.2	0.8	38.8	0.0	106.1 99.9	0.0	123.8	0.0	123.8
20 20	09 10	0.0 0.0	20.1 21.5	1.2 0.1	55.0 56.1	(s) (s)	2.4 2.1	0.7 0.9	40.5 40.7	0.0 0.0	99.9 99.9	0.0 0.0	119.9 121.4	0.0 0.0	119.9 121.4
20	11	0.0	18.5	0.1	52.3	(s)	2.1	0.8	38.3	0.0	93.6	0.0	112.1	0.0	112.1
20° 20°	12 13	0.0 0.0	17.3 16.0	0.1 0.1	56.3 53.7	(s) (s)	2.0 2.0	0.8 0.8	41.3 40.8	0.0 0.0	100.4 97.5	0.0 0.0	117.7 113.4	0.0 0.0	117.7 113.4
20 20	14	0.0 0.0	16.0 13.7	0.2 0.1	59.0 54.1	(s)	1.7 1.8	0.8	40 1	0.0	101.7 97.7	0.0	117.7	0.0 0.0	117.7
20 20	15 16	0.0 0.0	13.7 13.5	0.1 0.1	54.1	(s) (s)	1.8 1.6	0.8 0.8	40.8 41.6	0.0 0.0	97.7 99.1	0.0 0.0	111.4 112.6	0.0 0.0	111.4 112.6
20	17	0.0	14.4	0.1	55.0 54.6	(s)	1.8	0.7	40.8	0.0	98.0	0.0	112.5	0.0	112.5
20		0.0	16.2	0.1	58.8	(s)	1.7	0.7	38.4	0.0	99.7	0.0	115.9	0.0	115.9
20 20	20	0.0 0.0	14.3 14.4	0.1 0.1	61.1 54.9	(s) (s)	2.0 1.8	0.7 0.6	38.0 35.4	0.0 0.0	101.9 92.8	0.0 0.0	116.2 107.1	0.0 0.0	116.2 107.1
20:	21	0.0 0.0	13.8 13.3	0.1	54.9 R 53.9 53.3	(s)	1.8 2.5 2.0	0.6 0.7	37.7	0.0	92.8 R 95.1 91.3	0.0	107.1 R 108.9	0.0 0.0	R 108.9
20	22	0.0	13.3	0.1	53.3	(s)	2.0	0.7	35.0	0.0	91.3	0.0	104.6	0.0	104.6

a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
 b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

C Hydrocarbon gas liquids, assumed to be propane only.

d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales

to public railroads and railway systems only. Excludes electric vehicles.

<sup>9</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>— =</sup> Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Wyoming

				Petro	leum				Biomass					
	Coal	Natural gas <sup>a</sup>	Distillate fuel oil <sup>b</sup>	Petroleum coke	Residual fuel oil <sup>c</sup>	Total	Nuclear electric power	Hydroelectric power d		Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity net imports <sup>h</sup>	
Year	Thousand short tons	Billion cubic feet		Thousan	d barrels		Million kild	owatthours	Wood and waste <sup>e,f</sup>		Million k	ilowatthours		Total <sup>f,i</sup>
1960	815	1	6	0	5	12	0	609		0	NA	NA	0	
1960 1965 1970	815 1,941 3,571	(s) 2	19	0	15	12 34 25	0	609 884		Ō	NA	NA	0	
1970 1975	6 938	2	13 6	0	11 112	25 118	0	1,006 1,120		0	NA NA	NA NA	0	
1975 1980	13,498	(s)	123	ŏ	0	123	Ö	1,108		ŏ	NA	NA	ŏ	
1985	21,173	(s) (s)	143	0	0	143	0	1,068		0	0	3	0	
1990 1995	23,526 23,850	(s) (s) 2	99 128	0	0	99 128	0	645 799		0	0	ő	Ŏ	
2000 2005	26.365	`ź	66 77	0	0	66 77	0	1,011		0	0	246	0	
2005	26,086 26,170	1	77 88	0	0	77 88	0	808 843		0	0	717 759	-98 -47 -55	
2007	26,585	2	84	ŏ	ŏ	84	ŏ	729		ŏ	ŏ	755	-55	
2008	26,885	1	79	0	0	79	0	835		0	0	963	-42	
2009 2010	25,501 26,102	1	91 104	0	0	91 104	0	967 1,024		0	0	2,226 3,247	-36 -26	
2011	25,114	(s)	104 98	Ö	ő	98	Ö	1,224		Ö	Ö	4,612	2	
2012	26,265 27,916	(s)	79 71	0	0	79 71	0	893 711		0	0	4,369	-3 -2	 
2013 2014	26,289	i	67	0	0	71 67	0	869		0	0	4,433 4,406	-2 -5	
2015	26,313	1	75 75	0	Ō	75 75	Ō	868		0	0	3.757	2	
2016 2017	24,434 24,679	2	75 74	0	0	75 74	0	973 1,124		0	0	4,389 4,321	(s)	
2018 2019	24,378	2	64 73	0	0	64	0	976 992		0	1	4 057	(s) -3	
2019	24,378 21,818	3	73	0	0	73	0	992		0	180	4,163	0	
2020 2021	20,866 20,014	6 8	79 107	0	0	79 107	0	1,086 790		0	165 179	5,513 8,448	0	
2022	20,844	10	88	ő	ő	88	ŏ	745		ő	186	9,780	ő	
						•	Trillion Btu							
1960 1965	12.1 31.0	0.7 0.2	(s) 0.1	0.0	(s) 0.1	0.1 0.2	0.0	R 2.1 R 3.0 R 3.4 R 3.8 R 3.6 R 2.2 R 2.7	0.0	0.0	NA	NA	0.0	R 14.9
1965 1970	31.0 59.0	0.2 2.4	0.1 0.1	0.0	0.1 0.1	0.2 0.1	0.0 0.0	R 3.0	0.0 0.0	0.0 0.0	NA NA	NA NA	0.0 0.0	R 34.4 R 65.0
1975	59.0 115.4	0.4	(s) 0.7	0.0	0.7	0.7	0.0	R 3.8	0.0	0.0	NA	NA	0.0	R 120.3 R 242.1 R 375.4
1975 1980 1985	237.4 370.7	0.2 0.1	0.7 0.8	0.0 0.0	0.0 0.0	0.7 0.8	0.0 0.0	H 3.8	0.0 0.0	0.0 0.0	NA 0.0	NA (a)	0.0 0.0	H 242.1
1990	416.0	0.1	0.6	0.0	0.0	0.6	0.0	R 2.2	0.0	0.0	0.0	(s) 0.0	0.0	R 418.8
1990 1995	418.4	0.1	0.7	0.0	0.0	0.7	0.0	R 2.7	0.0	0.0	0.0	0.0	0.0	R 418.8 R 422.0
2000 2005	464.9 458.2	1.9 0.5	0.4 0.4	0.0 0.0	0.0 0.0	0.4 0.4	0.0 0.0	n 3.4	0.0 0.0	0.0 0.0	0.0 0.0	R 0.8	0.0 -0.3	R 471.5
2006	455.0	0.8	0.5	0.0	0.0	0.5	0.0	R 3.4 R 2.8 R 2.9 R 2.5 R 2.8	0.0	0.0	0.0	R 2.4 R 2.6	-0.2	R 464.0 R 461.6 R 466.8 R 472.5
2007 2008	459.4 465.0	2.0	0.5 0.5	0.0	0.0	0.5 0.5	0.0	R 2.5	0.0	0.0	0.0	R 2.6 R 3.3	-0.2	R 466.8
2008	465.0 442.9	1.1 1.1	0.5 0.5	0.0 0.0	0.0 0.0	0.5 0.5	0.0 0.0	R 2.8	0.0 0.0	0.0 0.0	0.0 0.0	<sup>n</sup> 3.3 R 7.6	-0.1 -0.1	P 4/2.5 R 455.3
2009 2010 2011	452.7	0.6	0.6	0.0	0.0	0.6	0.0	R 3.3 R 3.5 R 4.2	0.0	0.0	0.0	H 11 1	-0.1	R 455.3 R 468.3 R 455.5 R 477.5 R 507.3
2011	434.6	0.4	0.6	0.0	0.0	0.6	0.0	R 4.2	0.0	0.0	0.0	R 15.7	(s) (s) (s)	R 455.5
2012 2013	458.6 488.8	0.5 0.5	0.5 0.4	0.0 0.0	0.0 0.0	0.5 0.4	0.0 0.0	R 3.0 R 2.4 R 3.0 R 3.0 R 3.3 R 3.8 R 3.3 R 3.3	0.0 0.0	0.0 0.0	0.0 0.0	R 14.9 R 15.1	(S)	R 507.3
2014	456.9	0.8	0.4	0.0	0.0	0.4	0.0	R 3.0	0.0	0.0	0.0	H 15 N	(s) (s)	114/61
2015 2016	457.7 425.1	1.3 1.6	0.4 0.4	0.0	0.0	0.4	0.0	H 3.0	0.0	0.0	0.0	R 12.8 R 15.0	(s)	R 475.2 R 445.4
2017	426.7	1.6 1.4	0.4	0.0 0.0	0.0 0.0	0.4 0.4	0.0 0.0	R 3.8	0.0 0.0	0.0 0.0	0.0	R 14 7	(s)	R 447.1
2018	424.2	2.0	0.4	0.0	0.0	0.4	0.0	R 3.3	0.0	0.0	(s) R 0.6	R 13.8 R 14.2	(s) (s) 0.0	R 447.1 R 443.7 R 401.3
2019 2020	379.3 364.3	3.4 6.0	0.4 0.5	0.0 0.0	0.0 0.0	0.4 0.5	0.0 0.0	H 3.4 R 3.7	0.0 0.0	0.0 0.0	H 0.6 H 0.6	H 14.2 R 18.8	0.0 0.0	H 401.3 R 393.8
2021	350.6	8.3	0.6	0.0	0.0	0.6	0.0	R 2.7 2.5	0.0	0.0	R 0.6	R 28.8	0.0	R 391.7
2022	350.6 362.8	10.6	0.5	0.0	0.0	0.6 0.5	0.0	2.5	0.0	0.0	0.6	R 28.8 33.4	0.0	410.5

<sup>&</sup>lt;sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

C Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
 There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
 Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.

<sup>-- =</sup> Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

Consumption Technical Notes

# **Contents**

Introduction to the technical notes	1
Section 1. Documentation guide	7
Section 2. Coal	11
Section 3. Natural gas	23
Section 4. Petroleum	29
Section 5. Renewable energy	101
Section 6. Electricity	133
Section 7. Total energy	143
Appendix A. Mnemonic series names (MSN)	149
Appendix B. Thermal conversion factors	207
Appendix C. Metric and other physical conversion factors	235
Appendix D. Data and methodology changes	239
Glossary	241

## Introduction to the technical notes

## **Purpose**

The U.S. Energy Information Administration (EIA) develops, maintains, and operates the State Energy Data System (SEDS). The goal of SEDS is to provide historical time series of energy production, consumption, prices, expenditures, and indicators. by state that are defined as consistently as possible over time and across sectors. SEDS maintains these estimates for Members of Congress, federal and state agencies, the general public, and as inputs for EIA's energy models.

SEDS ensures that the sums of the state estimates equal the national totals as closely as possible for each energy type and end-use sector as published in other EIA publications. SEDS energy consumption estimates are generally comparable to the national statistics in EIA's *Monthly Energy Review*.

## The report

The SEDS consumption tables, available on the EIA website at <a href="http://www.eia.gov/state/seds/seds-data-complete.php">http://www.eia.gov/state/seds/seds-data-complete.php</a>, provide annual time series estimates of state-level energy use by broad energy-consuming sectors. Companion tables containing state-level price and expenditure estimates can be found at the same website. State-level energy production estimates are also available at <a href="http://www.eia.gov/state/seds/seds-data-complete.php">http://www.eia.gov/state/seds/seds-data-complete.php</a>. In addition, SEDS publishes the most recent year of data tables for state-level consumption, price, expenditure, and indicator estimates by energy source as they are updated at <a href="http://www.eia.gov/state/seds/seds-data-fuel.php">http://www.eia.gov/state/seds/seds-data-fuel.php</a>.

SEDS provides the following technical notes to assist users in understanding and interpreting the SEDS consumption estimates. Each section describes how SEDS derives the estimates for each individual energy source and lists the sources of all data series.

Technical notes for state-level prices and expenditures, as well as production, are also available at <a href="http://www.eia.gov/state/seds/seds-technical-notes-complete.php">http://www.eia.gov/state/seds/seds-technical-notes-complete.php</a>.

Due to page-size constraints, most of the PDF time-series tables show estimates for only selected years. However, SEDS maintains consumption estimates for all years from 1960 forward and includes them in the HTML

tables and CSV, XLSX, and ZIP data files available on EIA's website. The documentation in this report covers all years. In the published SEDS tables, all estimates with revisions since the last SEDS report that are large enough to be seen are preceded with an "R."

## **Estimates**

Estimation methodologies. Using SEDS, EIA develops estimates of energy consumption by energy sources, broad energy-consuming sectors, and by state for 1960 forward. SEDS estimates energy consumption using data from surveys of energy suppliers that report consumption, sales, or distribution of energy at the state level. Most of the SEDS estimates rely directly on collected state-level consumption data (see "Collected data and estimated values in SEDS" on page 3, which summarizes the status of current data sources used). SEDS uses a variety of surrogate measures to estimate energy consumption. SEDS selects the measures mainly on the basis of applicability as an indicator of consumption, availability, continuity over time, and consistency. For instance, for petroleum, EIA uses "product supplied" as an approximation for consumption. EIA calculates "product supplied" as the sum of field and refinery production, plus imports, minus exports, plus or minus changes in stocks. SEDS uses state-level sales survey data and other proxies of consumption to allocate the national petroleum product supplied totals to the states. The measures of consumption and estimation methodologies are explained in detail under each energy source in the technical notes.

SEDS also estimates state electrical system energy losses that are not available from any survey. See "Energy consumption measures—total and end use" on page 4 for a discussion about losses and how SEDS displays them in the tables. U.S. electrical system energy losses are defined as the differences between the heat content of all energy consumed by the electric power sector and the heat content of electricity sales to ultimate customers. SEDS estimates state-level losses using two methods, depending on whether data on net interstate flow of electricity are available. See Section 6, "Electricity," for details.

**Data sources.** The original source documents cited in the technical notes include descriptions of the data collection methods, imputation or adjustment techniques, and errors associated with the processes. Due

to the many different collection forms and procedures associated with the source data and estimation methods, it is not possible to develop a meaningful numerical estimate of the errors of the integrated data published in SEDS.

It is difficult to develop reliable, consistent series for long periods of time—especially in the earlier years—and SEDS must make assumptions to fill data gaps and to maintain definitional consistency. Although SEDS incorporates the most consistent series and procedures possible, users of this report should recognize the limitations of the data that are due to changing and inadequate data sources.

For example, in reports prepared by the Bureau of Mines in the late 1960s and early 1970s, petroleum consumption was equated to demand. Later, consumption was equated to apparent demand and, more recently, to product supplied. Changes in surveys and reduction of data collections, especially after 1978, disturbed the continuity of some petroleum consumption series, most notably for distillate fuel oil, residual fuel oil, and kerosene. The technical notes explain these and other data inconsistencies in detail for each energy source.

# Comparison with other energy consumption reports

EIA conducts many energy-related surveys. In general, the surveys can be divided into two broad groups. One group of surveys, called supply surveys, gather information from suppliers and marketers of specific energy sources. Those surveys measure the quantities of specific fuels supplied to the market. EIA combines the results of supply surveys and publishes them in various EIA products, including the *Monthly Energy Review* and SEDS. The second group of surveys, called energy consumption surveys, gather information directly from end users of energy. Although there are some elements in common, the supply survey data and the consumption survey data have substantially different approaches, capabilities, and objectives. Thus, care must be taken in analyzing SEDS consumption estimates with consumption survey data for the following reasons:

 SEDS consumption is a broad accounting of energy consumption, covering all energy use allocated into major sectors as clearly as possible. The energy consumption surveys are comprehensive and representative within individual sectors. However, for sampling and data collection purposes, the sectors are restricted for purposes of creating relatively homogeneous, well-defined populations. For example, the *Commercial Buildings Energy Consumption Survey* (CBECS) covers only energy consumption in commercial buildings, while SEDS includes other commercial consumption, such as street lighting and public services; and the *Manufacturing Energy Consumption Survey* (MECS) covers only manufacturing establishments, while SEDS includes other industrial energy consumption (i.e., mining, construction, agriculture, fisheries, and forestry). Further, the consumption surveys do not cover all energy-using sectors, and therefore cannot be summed together to account for all energy use.

- Energy consumption surveys provide user characteristics that allow for both macro-level (for major sectoral sub-populations) and micro-level (at the unit of data collection) interpretive analysis. The surveys of energy consumption by residential households from the Residential Energy Consumption Survey (RECS, Form EIA-457) and by commercial buildings from the CBECS (Form EIA-871) provide detailed information about the energy end users, their size, their stock of energy-consuming equipment and appliances, and their total energy consumption and expenditures. The MECS (Form EIA-846) collects consumption by type of use and fuel switching capability from manufacturing establishments grouped by manufacturing classification. SEDS, on the other hand, provides limited characterization of the end users of energy but greater geographic and energy product detail, as well as annual historical time series.
- Sectoral classification in SEDS is generally based on supplier classifications of customer accounts, by whatever means suppliers choose to use (see discussion in the next section).
   Energy consumption surveys base their sectoral classification on a categorization, verified by end user, of the data collection unit's (household, building, or establishment) primary economic activity.
- The energy consumption surveys provide data at national and Census levels, SEDS provides estimates at national and state levels.
- The reference periods are also different. SEDS covers calendar years for 1960 forward, while the consumption surveys are for selected years. Before 1987, the residential end-use surveys cover a heating season year (April through March). Beginning with the 1987 residential end-use survey, the reference period is a calendar year.

For a more detailed description of the differences between SEDS and the energy consumption surveys, see the EIA analysis report *Energy*  Consumption by End-Use Sector: A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, April 1990.

## Collected data and estimated values in SEDS

Coal. SEDS takes U.S. total coal consumption data by sector directly from EIA's *Annual Coal Report* (ACR) and predecessor publications. Total coal consumption by state and for most sectors is from the ACR, except where SEDS estimates withheld values. The state-level allocation of the ACR's combined residential and commercial sector consumption, available through 2007, are estimates. For 2008 forward, ACR only provides commercial sector consumption and SEDS assumes residential sector consumption to be zero. Electric power sector coal consumption (utility-scale facilities with capacity of 1 megawatt and greater) by state and coal type are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

**Natural gas.** SEDS takes natural gas consumption by state and sector directly from EIA's *Natural Gas Annual* (NGA). SEDS combines natural gas consumed as lease fuel and plant fuel and natural gas delivered to industrial consumers in the NGA for industrial sector consumption. SEDS combines natural gas consumed as vehicle fuel and pipeline fuel for transportation sector consumption. Electric power sector natural gas consumption is from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

**Petroleum.** U.S. total consumption for each petroleum product is equal to the "product supplied" data from EIA's *Petroleum Supply Annual* (PSA). State values for distillate fuel oil, residual fuel oil, and petroleum coke consumption by the electric power industry are from Form EIA-923, "Power Plant Operations Report," and predecessor forms. SEDS estimates all other state and sector values for consumption of petroleum products based on sales data and other surrogate measures from several sources.

Renewable energy. EIA collects renewable energy (hydroelectric power, geothermal, solar, wind, wood, and waste) used by the electric power industry (electric power sector and utility-scale commercial and industrial combined-heat-and-power and electricity-only plants) on Form EIA-923, "Power Plant Operations Report," and predecessor forms. In addition, for 2014 forward,

ElA's *Electric Power Annual* provides data on small-scale photovoltaic electricity generation for the residential, commercial, and industrial sectors. SEDS estimates data for earlier years. SEDS also estimates solar thermal energy consumed as heat, produced by non-electric applications. Geothermal energy direct use and by heat pumps in the residential, commercial, and industrial sectors are estimates based on a survey from the Oregon Institute of Technology Geo-Heat Center (through 2009). EIA estimates U.S. wood consumption in the residential, other commercial, and other industrial sectors based on data collected on Form EIA-457, Residential Energy Consumption Survey, Form EIA-871, Commercial Buildings Energy Consumption Survey, and Form EIA-846, Manufacturing Energy Consumption Survey and are published in the Monthly Energy Review (MER). SEDS allocates the estimates to the states. EIA estimates U.S. biofuels consumption based on data collected from various survey forms and reported in PSA and MER. SEDS estimates state-level consumption by sector for biodiesel, fuel ethanol, and renewable diesel. SEDS does not estimate state-level consumption for other biofuels.

**Nuclear electric power.** EIA collects nuclear electricity generation by state on Form EIA-923, "Power Plant Operations Report," and predecessor forms.

**Electricity.** Electricity consumption is equal to electricity sales to ultimate customers data by sector and state from the *Electric Power Annual* (EPA) with one exception. The exception is that SEDS allocates the EPA "Other" category, available from 1960 through 2002, to the transportation and commercial sectors in each state.

**Net interstate flow of electricity.** For 1990 forward, EIA's *State Electricity Profiles* provide net interstate electricity flows in kilowatthours. For 1960 forward, SEDS estimates the heat content of these series in British thermal units (Btu).

**Electrical system energy losses.** SEDS estimates these series.

## **Energy-consuming sectors**

SEDS bases its consumption estimates on data collected by various surveys that define the consuming sectors differently. The technical notes of this report describe how SEDS combines the collected data series for each energy source and assigns them to the consuming sectors. To the degree possible, SEDS assigns energy consumption to the five sectors according to the following general definitions:

 Residential sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include: space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

- Commercial sector: An energy-consuming sector that consists
  of service-providing facilities and equipment of: businesses;
  federal, state, and local governments; and other private and public
  organizations, such as religious, social, or fraternal groups. The
  commercial sector includes institutional living quarters. It also
  includes sewage treatment facilities. Common uses of energy
  associated with this sector include: space heating, water heating,
  air conditioning, lighting, refrigeration, cooking, and running a wide
  variety of other equipment. Note: This sector includes generators
  that produce electricity and/or useful thermal output primarily to
  support commercial activities.
- Industrial sector: An energy-consuming sector that consists
  of all facilities and equipment used for producing, processing,
  or assembling goods. The industrial sector encompasses the

## Energy consumption measures—total and end use

Sources of energy can be categorized as primary and secondary. Primary energy sources, including coal, petroleum, natural gas, nuclear energy, and renewable energy, are consumed directly. Electricity is a secondary form of energy that is generated (produced) from primary energy sources. The amount of electricity actually consumed by end users does not include the energy lost in the generation and delivery of the electricity to the point of use.

Primary energy sources are measured in different physical units, for example coal in short tons, liquid fuels in barrels or gallons, and natural gas in cubic feet. Energy sources are also measured by their heat content, such as in British thermal units (Btu), to compare different types of energy to each other. The heat content per unit of physical unit (thermal conversion factors) represents the gross (or higher or upper) energy content of the fuel. For example, in 2022, the average short ton of coal consumed by the electric power sector contained 18.792 million Btu (Appendix B, Table B13), the average barrel of distillate fuel oil contained 5.765 million Btu (Appendix B, Table B1), and the average cubic foot of natural gas consumed by the electric power sector contained 1,033 Btu (Appendix B, Table B3).

Electricity, a secondary form of energy, can also be measured in physical units, commonly kilowatthours, and by heat content. The conventional thermal conversion factor for electricity is 3,412 Btu

per kilowatthour.

In 2022 the electric power sector consumed 33.1 quadrillion Btu of primary energy to provide 13.4 quadrillion Btu of electricity sales to ultimate customers in the residential, commercial, industrial and transportation sectors. These data show that 59% of the primary energy in the fuels consumed to generate the electricity was used (or "lost") to convert the primary energy into electricity and distribute it to the end-use sectors. Only 41% of the primary energy was used as electricity by end users.

In evaluating these energy consumption tables, the tables titled "Total energy consumption" include all primary energy sources, including those used to generate electricity. The electricity generated from primary energy is not double counted. Tables titled "End-use sector consumption" include columns for the primary sources and electricity consumed by the sector, as well as a column for the estimated energy lost in the electrical system processes. The "Total" column in those tables includes all energy consumed by the sector and the associated energy lost in the generation and transmission of electricity. The column titled "End Use" is the sum of the primary sources and electricity, excluding the electrical system energy losses. See Section 7 "Total energy" for details.

following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support industrial activities.

- Transportation sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.
- Electric power sector: An energy-consuming sector that consists
  of electricity-only and combined-heat-and-power plants within
  the NAICS (North American Industry Classification System) 22
  category whose primary business is to sell electricity, or electricity
  and heat, to the public. Note: This sector includes electric utilities
  and independent power producers.

The first four energy-consuming sectors—residential, commercial, industrial, and transportation sectors—are also called end-use sectors.

## **Sector definition discrepancies**

Although SEDS makes the end-use allocations according to these aggregations as closely as possible, some data sources collect information using different classifications. For example, electric utilities may classify commercial and industrial users by the quantity of electricity purchased rather than by the business activity of the purchaser. Before 1996, EIA collected and reported natural gas used in agriculture, forestry, and fisheries in the commercial sector. For 1996 forward, EIA collects and reports natural gas used for agriculture, forestry, and fisheries in

the industrial sector instead. Another example is master-metered condominiums and apartments and buildings with a combination of residential and commercial units. In many cases, the metering and billing practices cause residential energy use of electricity, natural gas, or fuel oil to be included in the commercial sector. SEDS makes no adjustments for these discrepancies.

SEDS does not provide further disaggregated end-use sector consumption estimates. For example, the industrial sector cannot be broken down into the chemical or rubber industries, all manufacturing, or agriculture. Additional disaggregated regional information, such as counties or cities, are also not available in SEDS.

# Section 1. Documentation guide

This section describes the common data identification codes used in the State Energy Data System (SEDS). Sections 2 through 7, one for each energy source and total energy, provide: descriptions of all SEDS data series, including all of the intermediate variables codes; the SEDS formulas used to estimate additional data series; and notes on special circumstances for any series.

The energy indicators technical notes provides the degree day data, electric net summer capacity data, resident population data used in per capita calculations, and real gross domestic product (GDP) used to calculate total energy consumption per real dollar of real GDP. Appendix A is an alphabetical listing of all the variable names and formulas used in consumption estimation. Appendix B lists the conversion factors used to convert physical units into British thermal units (Btu) and cites the sources for those factors. Appendix C provides metric and other physical conversion factors for measures used in energy analyses. Appendix D summarizes changes made since the last complete release of SEDS estimates.

There are about 1,000 variables in SEDS, each identified by a unique five-character mnemonic series name, or MSN. All published MSNs are listed in the Codes and Descriptions file on the SEDS website here: http:// www.eia.gov/state/seds/CDF/Codes and Descriptions.xlsx.

In the following example, MGACP is the identifying code for data on motor gasoline consumption in the transportation sector in physical units:

> Energy activity or energy-consuming sector



Type of energy Type of data

The first two characters in the SEDS variable names represent energy sources and products:

AB aviation gasoline blending components

ΑI aluminum ingot AR = asphalt and road oil

AS	=	asphalt
AV	=	aviation gasoline
B1	=	renewable diesel
BD.	=	biodiesel
BF	=	biofuels
BM	=	biomass
ВО	=	other biofuels
BQ	=	normal butane
BT	=	battery storage
BX	=	total biofuels (excluding fuel ethanol)
BY	=	butylene
CC	=	coal coke
CG	=	corrugated and solid fiber boxes
CL	=	coal
CO	=	crude oil, including lease condensate
CT	=	catalytic cracking
DF	=	distillate fuel oil
DM	=	distillate fuel oil, excluding biodiesel and renewable
		diesel
EL	=	electricity
EM	=	fuel ethanol, excluding denaturant
EN	=	fuel ethanol, including denaturant
EQ	=	ethane
ES	=	electricity sales
EY	=	ethylene
FF	=	fossil fuels
FN	=	petrochemical feedstocks, naphtha less than 401°F
FO	=	petrochemical feedstocks, other oils equal to or greater
		than 401°F
FS	=	petrochemical feedstocks, still gas
GE	=	geothermal energy
HL	=	hydrocarbon gas liquids
HP	=	hydroelectric pumped storage
HV	=	conventional hydroelectric power
HY	=	hydroelectric power
IQ	=	isobutane
ΙΥ	=	isobutylene
JF	=	jet fuel
JK	=	jet fuel, kerosene-type

jet fuel, naphtha-type

JN

D	140	= kerosene				
_	KS	kerosene				
0	LO	electrical system energy losses				
С	LU	= lubricants				
_	MB	= motor gasoline blending components				
U	MG	= motor gasoline				
M	MM	= motor gasoline excluding fuel ethanol				
	MS	= miscellaneous petroleum products				
Ε	NA	= natural gasoline (including isopentane) (before 1984)				
N	NG	= natural gas, including supplemental gaseous fuels				
	NN	= natural gas, excluding supplemental gaseous fuels				
Т	NU	= nuclear electric power				
Α	OC	= organic chemicals				
	OJ	= other gases				
T	OP P1	= other petroleum products				
ı	PI	= asphalt and road oil, aviation gasoline, kerosene,				
Ò		lubricants, petroleum coke, and other petroleum products				
_	PA	= all petroleum products				
N	PC	= petroleum coke				
	PI	= paints and allied products				
_	PL	= plant condensate				
G	PM	= all petroleum products excluding ethanol blended into				
U	1 101	motor gasoline				
Ī	PP	= natural gasoline (previously pentanes plus)				
ı	PQ	= propane				
D	PY	= propylene				
Ε	RD	= road oil				
_	RE	= renewable energy				
	RF	= residual fuel oil				
	SF	<ul> <li>supplemental gaseous fuels</li> </ul>				
	SG	= still gas				
	SN	= special naphtha				
	SO	= photovoltaic and solar thermal energy				
	TE	= total energy				
	TN	= end-use energy consumption				
	UO	= unfinished oils				
	US	= unfractionated streams				
	WD	= wood				
	WS	= waste				

The third and fourth characters in the SEDS variable names have several meanings and some are specific to only certain energy sources. First,

wood and waste

= waxes

wind

many represent the energy-consuming sectors:

AC = transportation sector consumption CC = commercial sector consumption

EG = electric power sector generation (also consumption)

El = electric power sector consumption

ET = total consumption for electricity generation (nuclear

only)

HC = residential and commercial sector (coal only)

IC = industrial sector consumption RC = residential sector consumption

TC = total consumption of all energy-consuming sectors

TX = total consumption of all end-use sectors

Second, many of the third and fourth characters represent activities, such as: trade, interstate flow, energy losses, subsectors, as well as sales, deliveries, and distribution data series used in the intermediate calculations to derive the SEDS end-use sector consumption estimates. Examples include:

CA = capacity EX = exports

GB = generating units net summer capacity total (all sectors)

IM = imports

IN = deliveries to the industrial sector
IS = interstate flow (electricity only)
KC = consumption at coke plants

LC = energy losses and co-products (biofuels only)

LP = lease and plant fuel

NI = net imports

OC = other industrial consumption (coal and petroleum only)

PZ = pipeline and distribution use (natural gas only)

R7 = residential small-scale electricity generation (solar

only)

SU = product supplied

VA = value of shipments or value-added in manufacture

The third and fourth positions also represent the per capita SEDS consumption data series, which are equal to SEDS consumption divided by the population. These include:

AP = transportation sector consumption per capita
CP = commercial sector consumption per capita
IP = industrial sector consumption per capita

RP = residential sector consumption per capita (electricity

only)

WW

WX

WY

TP = total consumption per capita

Combining the first two components (the first four letters) produces variable names, such as:

NGIC = natural gas consumed by the industrial sector NGIN = natural gas delivered to the industrial sector

RFAC = residual fuel oil consumed by the transportation sector

The fifth character of the variable names in SEDS identifies the units or type of data:

B = data in British thermal units (Btu)

K = factor for converting data from physical units to Btu

M = data in alternative physical units
P = data in standardized physical units
S = share or ratio expressed as a fraction

V = value in million dollars

In general, most of the source data entered into SEDS are in physical units, represented by a "P" in the fifth character. For example, coal data are in thousand short tons, petroleum data are in thousand barrels, and natural gas data are in million cubic feet. In some cases, the data source collects information in different units, such as thousand gallons instead of thousand barrels. In these cases, SEDS represents these data with the fifth character "M" until converted in SEDS to the unit that is consistent with other variables. Conversion factors, represented by a "K" in the fifth character, are applied to the physical unit data to convert the data to British thermal units (Btu), a common unit of heat for all forms of energy. The fifth character "B" represents the derived data series in billion Btu. In a few cases, SEDS calculates the consumption estimates using shares of aggregated consumption data. The fifth character "S" represents the fractions used to calculate the consumption shares. SEDS calculates the consumption estimates for some petroleum products using the value of shipments for selected manufacturing process in each state. The fifth character "V" represents the data series for those industrial activities, in million dollars.

There are a few variables that do not follow the convention, including most energy indicators variables, such as:

GDPRX = real gross domestic product

TETGR = total energy consumption per dollar of real gross

domestic product (GDP)

TPOPP = resident population

Table TN1.1. Geographic area codes used in the State Energy Data System

Code	State	Code	State
AK	Alaska	NC	North Carolina
AL	Alabama	ND	North Dakota
AR	Arkansas	NE	Nebraska
AZ	Arizona	NH	New Hampshire
CA	California	NJ	New Jersey
CO	Colorado	NM	New Mexico
CT	Connecticut	NV	Nevada
DC	District of Columbia	NY	New York
DE	Delaware	ОН	Ohio
FL	Florida	OK	Oklahoma
GA	Georgia	OR	Oregon
HI	Hawaii	PA	Pennsylvania
IA	Iowa	RI	Rhode Island
ID	Idaho	SC	South Carolina
IL	Illinois	SD	South Dakota
IN	Indiana	TN	Tennessee
KS	Kansas	TX	Texas
KY	Kentucky	UT	Utah
LA	Louisiana	VA	Virginia
MA	Massachusetts	VT	Vermont
MD	Maryland	WA	Washington
ME	Maine	WI	Wisconsin
MI	Michigan	WV	West Virginia
MN	Minnesota	WY	Wyoming
МО	Missouri	US	United States
MS	Mississippi	48	The contiguous
MT	Montana		48 states and the District of Columbia

ZWCDP = cooling degree days (CDD) ZWHDP = heating degree days (HDD)

Throughout the technical notes, SEDS often describes the variables with a two character geographic identification attached to them. Geographic areas used in SEDS are the 50 states and the District of Columbia (represented by the U.S. Postal Service state abbreviations) and the

United States as a whole. In SEDS, the term "state" includes the District of Columbia. SEDS calculates some estimates of electricity sales and losses using only the contiguous 48 states and the District of Columbia, and the variables used in those calculations are identified by "48."

Table TN1.1 shows the geographic area codes used in SEDS consumption variables.

## Section 2. Coal

## **Coal consumption**

## Physical units

The State Energy Data System (SEDS) estimates the amount of coal consumed, in short tons, by the electric power sector and the end-use sectors. Most coal in the United States is consumed by the electric power sector. The U.S. Energy Information Administration (EIA) collects coal electricity data on Form EIA-923, "Power Plant Operations Report," and predecessor forms. SEDS uses these data directly as estimates for electric power sector coal consumption. "ZZ" in the variable name is used to represent the two-letter state code:

CLEIPZZ = coal consumed by the electric power sector in each state, in thousand short tons.

CLEIPUS =  $\Sigma$ CLEIPZZ

SEDS uses seven data series to estimate state coal consumption for the industrial, commercial, residential, and transportation sectors. EIA's *Annual Coal Report* (and earlier publications) publishes four U.S.-level coal consumption data series by sector, in thousands of short tons:

CLACPUS = coal consumed by the transportation sector in the United States (through 1977);

CLHCPUS = coal consumed by the residential and commercial sectors (commercial sector from 2008 forward) in the

United States;

CLKCPUS = coal consumed by coke plants in the United States; and coal consumed by other industrial users in the United States.

SEDS uses three state-level coal distribution/consumption series by sector, in thousand short tons. Before 2008, most of these data are coal distribution data. SEDS calculates state-level consumption estimates by applying these state shares to the U.S. consumption. In 2008, EIA discontinued its Form EIA-6A, "Coal Distribution Report—Annual," the survey that collected coal distribution data, and SEDS uses Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users," as the primary source for 2008 forward. While Form EIA-3 data are for

coal consumption instead of distribution, SEDS uses the same data series codes to compile state shares for 2008 forward. Another change in the Form EIA-3 data is that residential consumers are no longer covered. The former EIA-6A combined "residential and commercial" sector series is replaced by the EIA-3 "commercial and institutional" sector series, which SEDS assumes is all commercial sector use. While the definitions change in 2008, SEDS uses the same series codes throughout the full time series.

#### Before 2008:

CLHDPZZ = coal distributed to the residential and commercial sectors in each state;

CLKDPZZ = coal distributed to coke plants in each state; and CLODPZZ = coal distributed to other industrial users in each state.

#### For 2008 forward:

CLHDPZZ = coal consumed by the commercial sector in each state;
CLKDPZZ = coal consumed by coke plants in each state; and
CLODPZZ = coal consumed by other industrial users in each state.

SEDS sums the state data to calculate the U.S. totals.

Before 2008, SEDS assumes that state coal consumption by the combined residential and commercial sectors is proportional to the amount of coal distributed to the residential and commercial sectors in each state:

#### Before 2008:

CLHCPZZ = (CLHDPZZ/CLHDPUS) \* CLHCPUS

To estimate residential coal consumption, EIA calculates the residential share of the combined residential and commercial series at the national level, CLRCSUS (see explanation on page 20). SEDS applies these ratios, as shown in Table TN2.1, to the combined series to estimate residential consumption. SEDS allocates the remainder to the commercial sector.

#### Before 2008:

CLRCPZZ = CLHCPZZ \* CLRCSUS

Table TN2.1. Residential sector share of combined residential and commercial coal consumption, 1960 through 2007

Years	CLRCSUS	Years	CLRCSUS	Years	CLRCSUS
1960-1962	0.59	1979	0.20	1994	0.15
1963, 1964	0.58	1980	0.21	1995	0.13
1965-1967	0.57	1981	0.18	1996	0.12
1968-1970	0.56	1982	0.17	1997, 1998	0.11
1971	0.49	1983	0.16	1999	0.12
1972	0.43	1984	0.19	2000, 2001	0.11
1973	0.37	1985	0.22	2002	0.12
1974	0.32	1986, 1987	0.23	2003	0.13
1975	0.30	1988	0.22	2004	0.10
1976	0.29	1989	0.21	2005	0.08
1977	0.28	1990	0.20	2006	0.09
1978	0.23	1991–1993	0.18	2007	0.10

 $CLRCPUS = \Sigma CLRCPZZ$ 

CLCCPZZ = CLHCPZZ - CLRCPZZ

 $CLCCPUS = \Sigma CLCCPZZ$ 

For 2008 forward, EIA collects state-level commercial and institutional coal use data, published in EIA's *Annual Coal Report*. SEDS uses this series for commercial sector consumption and assumes residential sector coal consumption to be zero. SEDS maintains the same CLHDPZZ series code.

#### 2008 forward:

CLCCPZZ = CLHDPZZ $CLCCPUS = \Sigma CLCCPZZ$ 

CLRCPZZ = 0CLRCPUS = 0

Before 2008, EIA collects industrial coal consumption at the national level and SEDS estimates industrial coal consumption by state. SEDS assumes that coal consumption by industrial coke plants is proportional to the amount of coal distributed to coke plants in each state. SEDS also assumes that coal consumption by industrial users, other than coke plants, is proportional to the amount delivered to other industrial users in each state. SEDS sums the amount of coal consumed by coke plants and other industrial users to calculate each state's total industrial sector consumption.

For 2008 forward, EIA collects state-level industrial coal consumption

by industrial coke plants and other industrial plants published in EIA's *Annual Coal Report*. SEDS directly uses these estimates. While these variables are treated as independent variables, SEDS maintains the same distribution series codes. For 2008 through 2011, SEDS estimates withheld data using consumption growth rates and coal distribution data. For 2012 forward, the source no longer withholds state-level consumption data.

#### Before 2008:

CLKCPZZ = (CLKDPZZ/CLKDPUS)\*CLKCPUS
CLOCPZZ = (CLODPZZ/CLODPUS)\*CLOCPUS

For 2008 forward:

CLKCPZZ = CLKDPZZ CLOCPZZ = CLODPZZ

For all years:

CLICPZZ = CLKCPZZ + CLOCPZZ

The transportation sector accounted for less than 1% of total U.S. coal consumption in 1960 and decreased annually since then. EIA stopped reporting coal delivered to the transportation sector in 1978, and since then any small amount of coal consumed by the transportation sector are included in the other industrial category (CLOCPUS). There are no available data to estimate transportation sector consumption of coal by state. SEDS assumes that, when national-level data exist, state transportation sector coal consumption, CLACPZZ, is proportional to the state's share of U.S. industrial sector coal consumption:

CLACPZZ = (CLICPZZ/CLICPUS) \* CLACPUS

SEDS sums all of the sectors to calculate each state's total coal consumption, CLTCPZZ:

CLTCPZZ = CLRCPZZ + CLCCPZZ + CLICPZZ + CLACPZZ + CLEIPZZ

SEDS sums the sector totals of all of the states to calculate the U.S. total consumption estimates for each sector.

## British thermal units (Btu)

SEDS uses five factors to convert coal consumption from physical units to Btu:

CLACKZZ = the factor for converting coal consumed by transportation sector in each state from short tons to Btu (through 1977);

CLEIKZZ = the factor for converting coal consumed by the electric power sector in each state from short tons to Btu;

CLHCKZZ = the factor for converting coal consumed by the residential and commercial sectors in each state from short tons to Btu;

CLKCKZZ = the factor for converting coal consumed at coke plants in each state from short tons to Btu; and

CLOCKZZ = the factor for converting coal consumed by other industrial users in each state from short tons to Btu.

SEDS applies the electric power sector conversion factor for each state to the physical unit value to estimate coal consumed in Btu:

CLEIBZZ = CLEIPZZ \* CLEIKZZ

SEDS applies the residential and commercial sectors' state conversion factor to the physical unit values to estimate coal consumed in Btu:

CLRCBZZ = CLRCPZZ \* CLHCKZZ CLCCBZZ = CLCCPZZ \* CLHCKZZ

SEDS estimates industrial sector coal Btu consumption in two steps. First, SEDS applies individual state conversion factors for both coal consumed at coke plants and at other industrial users. Then, SEDS sums the two series to calculate the total industrial sector coal consumption in Btu:

CLKCBZZ = CLKCPZZ \* CLKCKZZ CLOCBZZ = CLOCPZZ \* CLOCKZZ CLICBZZ = CLKCBZZ + CLOCBZZ

SEDS applies the transportation sector conversion factor for each state to the physical unit value to estimate coal consumed in Btu:

CLACBZZ = CLACPZZ \* CLACKZZ

SEDS sums the sectors to calculate each state's total coal consumption:

CLTCBZZ = CLRCBZZ + CLCCBZZ + CLICBZZ + CLACBZZ + CLEIBZZ

SEDS sums the states series to calculate the U.S. total coal consumption estimates in Btu. SEDS calculates each of the five sector U.S. average conversion factors as the U.S. consumption in Btu divided by the U.S. consumption in physical units.

#### Additional notes

 The national-level coal consumption data series for the residential and commercial sectors (CLHCPUS), coke plants (CLKCPUS), and industries other than coke plants (CLOCPUS) are from a continuous data source. However, the data series used to develop state-level allocators by end-use sector (CLHDPZZ, CLKDPZZ, and CLODPZZ) vary for different time periods.

For 1960 through 1979, U.S. coal consumption is allocated by state based on the proportion of coal distributed to each state.

Beginning with 1980, state-level total coal consumption data are available; however, many of these data are withheld at the sector level. Withheld data are estimated by substituting residential and commercial coal distribution data for residential and commercial coal consumption. In many states, this leaves only one other sector withheld, which is derived by subtracting the other known sectors from the state total. In some cases withheld Census division values need to be subtracted out from known U.S. totals before the state-level estimates can be derived.

Beginning with 2001, additional state coal consumption values are withheld, making it no longer possible to subtract out estimates of coal consumed by coke plants for some states. To estimate the withheld consumption values, the known state-level coke plant coal consumption values are subtracted from the known Census division totals leaving a value to be distributed to the states that have withheld values in that division. Data for the same states from a different EIA data series on distribution of coal to coke plants are used to estimate the withheld consumption data. Distribution data for the three years before the year being estimated are summed for each state and its division and each state's share of its division subtotal is used to allocate the withheld coke plant coal consumption to that state. For 2001, Utah was grouped with New York and Pennsylvania to create the subtotal used in the percentage calculations.

Beginning with 2006, some state-level total coal consumption values that are withheld are first estimated by applying published year-on-year percent changes onto earlier years' published consumption values. In some cases, this would leave only one sector withheld, which is derived by subtracting the other known sectors from the state total.

In 2008, Form EIA-6A, "Coal Distribution Report—Annual," was

discontinued. From 2008 forward, estimates for coal consumption by sector are derived from Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users." Data for residential consumption are no longer covered and are assumed to be zero.

These derived series for the residential/commercial (before 2008), commercial/institutional (2008 forward), coke plant, and other industrial sectors are used in SEDS as the distribution data series to calculate coal consumption estimates by state and sector.

From 2012 forward, state-level consumption data are no longer withheld.

- 2. Total coal consumption by state for 1980 through 1989 published in the EIA Quarterly Coal Report does not sum to the U.S. totals due to a quantity called "Unknown" in the source tables. This unknown coal consumption is added to the residential, commercial, and "other industrial" sectors of Alabama, Illinois, Kentucky, Pennsylvania, Tennessee, and West Virginia in proportion to their total distribution of all coal.
- 3. Before 1974, data for distribution of bituminous coal and lignite by state include several groupings of states for which separate state data are not available. These groupings are: (1) Maine, New Hampshire, Vermont, and Rhode Island; (2) North Dakota and South Dakota; (3) Delaware and Maryland; (4) Georgia and Florida; (5) Alabama and Mississippi; (6) Arkansas, Louisiana, Oklahoma, and Texas; (7) Montana and Idaho; (8) Arizona and Nevada; and (9) Washington and Oregon. Beginning with 1974, individual state distribution data became available. To estimate the 1960 through 1973 state distribution data, the states are disaggregated in proportion to the individual states' shares of each similar state grouping in 1974.
- 4. The sources used to develop thermal conversion factors for bituminous coal and lignite consumed by the electric power sector—the National Coal Association report and the Federal Power Commission's (FPC) Form 423 and Federal Energy Regulatory Commission (FERC) Form 423—exclude Alaska. However, Alaska reported consumption of bituminous coal and lignite at electric utilities for all years, 1960 forward. Unpublished FPC heat rates for coal at electric utilities in Alaska were used for 1960 through 1972. The 1972 conversion factor (the last year for which a conversion factor was reported for Alaska) was used for 1973 through 1978.

According to industry sources, new mines were opened in 1978 and a more representative factor was used for 1979 through 1997. For 1998 forward, the Alaska factor is calculated using the same methodology as used for other states.

#### Data sources

CLACKZZ — Factor for converting coal consumed by the transportation sector from physical units to Btu by state.

- 1960 through 1977: Assumed by EIA to be equal to the Btu conversion factor for bituminous coal and lignite consumption by industrial users other than coke plants:
  - 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average.
  - 1974 through 1977: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each state contained heating values equal to those of bituminous coal and lignite received at electric utilities in each state from identified coal-producing districts as reported on Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to other industrial users in each state and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.
- 1978 forward: Transportation sector coal is included in the other industrial category. Zero is entered for this variable.

CLACPUS — Coal consumed by the transportation sector in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, chapter "Coal-Bituminous and Lignite," table titled, "Consumption of bituminous coal and lignite, by consumer class, and retail deliveries in the United States," column "Bunker, lake vessel and foreign."
- 1976 and 1977: EIA, Energy Data Reports, "Coal-Bituminous and

Lignite," table titled, "Consumption of bituminous coal and lignite, by consumer class, and retail deliveries in the United States," column "Bunker, lake vessel and foreign."

 1978 forward: Small amounts of bituminous coal and lignite consumed by the transportation sector are included in the other industrial category (see CLOCPUS). Zero is entered for this variable.

CLEIKZZ — Factor for converting coal consumed by the electric power sector from physical units to Btu by state.

 1960 through 1988: Calculated by EIA as the consumptionweighted average of national-level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS.

Anthracite conversion factors:

- 1960 through 1972: EIA assumed that all anthracite consumed at electric utilities was recovered from culm banks and river dredging and was estimated to have an average heat content of 17.500 million Btu per short ton.
- 1973 through 1988: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. These data are reported on the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and predecessor forms.

Bituminous coal and lignite conversion factors:

- 1960 through 1972: EIA adopted the average thermal conversion factor of the Bureau of Mines, which used the National Coal Association (NCA) average thermal conversion factor for electric utilities calculated from FPC Form 1 and published in Steam Electric Plant Factors, an NCA annual report. The specific tables are
  - 1960 and 1961: Table 1.
  - 1962 through 1972: Table 2.
- 1973 through 1982: The average heat content of coal received at steam electric plants 25 megawatts or greater from FPC Form 423 and published in Btu per pound in EIA, Cost and Quality of Fuels for Electric Utility Plants, tables titled "Destination and Origin of Coal 'Delivered to' (1973-1979) 'Receipts to' (1980) 'Received at' (1981-1982) Steam-Electric Plants 25-MW or Greater."
- 1983 through 1988: The average heat content of coal received

at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published in Btu per pound in the EIA, *Cost and Quality of Fuels for Electric Utility Plants*. The specific tables are

- 1983 and 1984: Table 58.
- 1985 through 1988: Table 48.

Note: The state conversion factors for 1960 through 1972 are derived from actual consumption data, while the conversion factors for 1973 to 1988 are based on receipts of coal. The factors for 1960 through 1972 also may include some quantities of anthracite. These breaks in the series create some data discrepancies. In instances where a state had no receipts for a particular year but did report consumption, it is assumed that the coal received in one year is consumed during the following year and the Btu value of the previous year's receipts is used. See Additional Note 4 on page 14 for Alaska calculations.

 1989 forward: Calculated by dividing the total heat content of coal received at electric power plants (including electric utilities and independent power producers) by the total quantity consumed in physical units collected on Form EIA-923, "Power Plant Operations Report," and predecessor forms, <a href="http://www.eia.gov/electricity/data/eia923/">http://www.eia.gov/electricity/data/eia923/</a>. See Additional Note 4 on page 14 for Alaska factors.

CLEIPZZ — Coal consumed by the electric power sector by state.

• EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/data/eia923/.

CLHCKZZ — Factor for converting coal consumed by the residential and commercial sectors from physical units to Btu by state.

 1960 through 1997: Calculated by EIA as the consumptionweighted average of national-level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS.

Anthracite conversion factors:

 Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for."

Bituminous coal and lignite conversion factors:

- 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed in the residential and commercial sector by the ratios of 1960 through 1973 national averages for the sector to its 1974 average.
- 1974 through 1997: Calculated by EIA by assuming that the bituminous coal and lignite consumed in the residential and commercial sector in each state contained heating values equal to those of bituminous coal and lignite received at electric utilities in each state from identified coal-producing districts as reported on the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to the residential and commercial sector in each state and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.
- 1998 through 2000: Calculated by EIA from the average heat content of coal received for the residential and commercial sectors combined as reported on Form EIA-860, "Annual Electric Generator Report." For states that are not represented in data on the Form EIA-860, it is assumed that the heat content of the coal receipts in residential and commercial sectors are equal to the heat content of coal received in the other industrial sector as reported on Form EIA-3A, "Annual Coal Quality Report—Manufacturing." For states that are not represented in either Form EIA-3A data or Form EIA-860 data (CT, NH, RI, VT, and DC), the heat content of coal receipts in MA is used for CT, NH, RI, and VT and the heat content of coal receipts in MD is used for DC, because the origin of the coal receipts are similar.
- 2001 through 2007: Calculated by EIA from the coal distribution data reported on Form EIA-6A, "Coal Distribution Report— Annual," and the average heat content of coal reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants." Form EIA-6A provides distribution data for the combined residential and commercial sectors by state of origin to the destination state. FERC Form 423 and Form EIA-423 provide

- the average heat content of coal produced in the state of origin.
- 2008 forward: Calculated by EIA using unpublished data as the average heat content of coal received at commercial and institutional establishments consuming more than 1,000 short tons of coal annually from Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users."

CLHCPUS — Coal consumed by the residential and commercial sectors (commercial sector from 2008 forward) in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, Chapter "Coal—Pennsylvania Anthracite Annual" and Chapter "Coal—Bituminous and Lignite," Table titled, "Consumption of bituminous coal and lignite, by consumer class, with retail deliveries in the United States" column titled "Retail deliveries to other consumers" or "Retail sales."
- 1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 7.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 6.
- 1988 through 1990, 1992 through 1995: EIA, Quarterly Coal Report, October-December for each year. Data are from the report of the following year, i.e., 1988 final data are published in the Quarterly Coal Report, October-December 1989. The specific tables are
  - 1988 through 1990: Table 29.
  - 1992 through 1994: Table 51.
  - 1995: Table 43.
- 1991, 1996 through 1999: EIA, Coal Industry Annual 2000, Table 75.
- 2000: EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.gov/coal/annual/.

CLHDPZZ — Coal distributed to the residential and commercial sectors (consumed by the commercial sector for 2008 forward) by state.

- 1960 through 1979: No data available. The 1980 state data are used for years 1960 through 1979.
- 1980 forward: The distribution data are published in

- 1980 through 1984: EIA, Coal Distribution, January-December 1984, Table 21.
- 1985 through 1989: EIA, Coal Distribution, January-December 1989, Table 15.
- 1990 and 1991: EIA, Coal Distribution, January-December for each year, Table 16.
- 1992 through 1994: EIA, Quarterly Coal Report, October-December for the following year, Table 10.
- 1995 through 1997: Unpublished data from Form EIA-6.
- 1998 through 2000: EIA, Coal Industry Annual for each year, Table 64.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.gov/coal/annual/. EIA, Annual Coal Distribution Report, Domestic Distribution of U.S. Coal by Destination State, Consumer, Destination and Method of Transportation, http://www.eia.gov/coal/distribution/annual/ and http://www.eia.gov/coal/distribution/annual/archive.php.

CLKCKZZ — Factor for converting coal consumed at coke plants from physical units to Btu by state.

 1960 through 1997: Calculated by EIA as the consumptionweighted average of national-level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS.

#### Anthracite conversion factors:

Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for."

## Bituminous coal and lignite conversion factors:

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite," sum of columns "Beehive coke plants" and "Oven coke plants."
- 1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 8.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988,
   Table 7.
- 1988 through 1997: EIA, Unpublished data from Form EIA-5,

"Coke Plant Report, Quarterly."

- 1998 through 2000: Calculated by EIA for 1998 using unpublished data from Form EIA-5, "Coke Plant Report, Quarterly." The 1998 state factors are used for 1999 and 2000.
- 2001 forward: Calculated by EIA from data reported on Form EIA-5, "Quarterly Coal Consumption and Quality Report, Coke Plants" (through 2013) and Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users," after Form EIA-5 was folded into Form EIA-3 in 2014. Coke plant data on tons of coal carbonized to create coke, the volatilities of the coal carbonized, and conversion factors based on coal volatility are used to calculate average conversion factors by state.

CLKCPUS — Coal consumed by coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, chapter "Coal—Pennsylvania Anthracite Annual," and chapter "Coal—Bituminous and Lignite," table titled, "Consumption of Bituminous coal and lignite, by consumer class, and retail deliveries in the United States," sum of columns titled "Beehive coke plants" and "Oven coke plants."
- 1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 7.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 6.
- 1988 through 1995: EIA, Quarterly Coal Report, October-December for each year. Data are from the report of the following year, i.e., 1988 final data are published in the Quarterly Coal Report, October-December 1989. The specific tables are
  - 1988 through 1990: Table 27.
  - 1991 through 1994: Table 48.
  - 1995: Table 40.
- 1996 through 1999: EIA, Coal Industry Annual 2000, Table 73.
- 2000: EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.gov/coal/annual/.

CLKDPZZ — Coal distributed to coke plants (consumption for 2008 forward) by state.

• 1960 through 1979: Series is the sum of an anthracite data series and a bituminous coal and lignite data series:

#### Anthracite:

 No data available. The 1980 state data are used for years 1960 through 1979.

#### Bituminous coal and lignite:

- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite."
- 1977 through 1979: EIA, Energy Data Reports, "Coal-Bituminous and Lignite." The specific tables are
  - 1977: "Comparative Summary of Distribution of Bituminous Coal and Lignite Produced in the United States During the First Nine Months of 1977" and "Distribution of Bituminous Coal and Lignite Produced in the United States During October-December 1977, by Geographic Division and State Destination."
  - 1978: "Distribution of Bituminous Coal and Lignite Produced in the United States."
  - 1979: "Overall Summary of Distribution of Bituminous, Subbituminous, and Lignite Coal Produced in the United States."
  - 1980 forward: Consumption data became available for some states and are used for this distribution series when available.
     See Additional Note 1 on page 13 for an explanation of the estimation methodology.
- 1980 through 1995: EIA, Quarterly Coal Report, October-December for each year. Data are from the report of the following year, i.e., 1982 final data are published in the Quarterly Coal Report, October-December 1983. The specific tables are
  - 1980: Unpublished data.
  - 1981 through 1983: Table 25.
  - 1984, 1985, and 1987: Table 27.
  - 1986, 1988, and 1989: Unpublished state revisions that are components of the U.S. revisions published in the *Quarterly* Coal Report, October-December 1991, Table 45.
  - 1990: Table 27.
  - 1991 through 1994: Table 48.
  - 1995: Table 40.
- 1996 through 1999: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Coal Industry Annual 2000, Table 73.
- 2000: EIA, unpublished data in short tons as published rounded

- to thousand short tons in EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.gov/coal/annual/. EIA, Annual Coal Distribution Report, Domestic Distribution of U.S. Coal by Destination State, Consumer, Destination and Method of Transportation, http://www.eia.gov/coal/distribution/annual/ and http://www.eia.gov/coal/distribution/annual/archive.php.

CLOCKZZ — Factor for converting coal consumed by industrial users other than coke plants from physical units to Btu by state.

 1960 through 1997: Calculated by EIA as the consumptionweighted average of national-level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS.

#### Anthracite conversion factors:

Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for."

Bituminous coal and lignite conversion factors:

- 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average.
- 1974 through 1997: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each state contained heating values equal to those of bituminous coal and lignite received at electric utilities in each state from identified coal-producing districts as reported on FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to other industrial users in each state and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and

- predecessor Bureau of Mines Form 6-1419-Q.
- 1998 through 2000: Calculated by EIA from unpublished data as the average heat content of coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal reported on Form EIA-3A, "Annual Coal Quality Report— Manufacturing Plants."
- 2001 forward: Calculated by EIA using unpublished data as the average heat content of (1) coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal annually from Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users," and predecessor forms; (2) coal consumed by coal mining facilities reported on Form EIA-7A, "Coal Production Report," with heat contents for the coal producing state reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms; and, before 2007, (3) coal distributed to agricultural, mining, and construction sectors reported on Form EIA-6A, "Coal Distribution Report—Annual" with heat contents for the coal producing state reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants."

CLOCPUS — Coal consumed by industrial users other than coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, Chapter "Coal—Pennsylvania Anthracite, Annual" and chapter "Coal—Bituminous and Lignite," table titled "Consumption of bituminous coal and lignite, by consumer class, and retail deliveries in the United States." Sum of columns titled "Steel and rolling mills," "Cement mills," and "Other manufacturing and mining industries."
- 1973 through 1984: EIA, *Weekly Coal Production*, August 9, 1986, Table 7.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 6.
- 1988 through 1999: EIA, Quarterly Coal Report, October-December for each year. Data are from the report of the following year, i.e., 1988 final data are published in the Quarterly Coal Report, October-December 1989. The specific tables are
  - 1988 through 1990: Table 28.
  - 1991 through 1994: Table 49.

- 1995: Table 41.
- 1996 through 1999: Table 42.
- 2000: EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.gov/coal/annual/.

CLODPZZ — Coal distributed to industrial plants (other than coke plants) (consumption for 2008 forward) by state.

• 1960 through 1979: Series is the sum of an anthracite data series and a bituminous coal and lignite data series:

#### Anthracite:

 No data available. The 1980 state data are used for years 1960 through 1979.

Bituminous coal and lignite:

- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coal—Bituminous and Lignite."
- 1977 through 1979: EIA, Energy Data Reports, "Coal— Bituminous and Lignite." The specific tables are
  - 1977: "Comparative Summary of Distribution of Bituminous Coal and Lignite Produced in the United States During the First Nine Months of 1977" and "Distribution of Bituminous Coal and Lignite Produced in the United States During October-December 1977, by Geographic Division and State Destination."
  - 1978: "Distribution of Bituminous Coal and Lignite Produced in the United States."
  - 1979: "Overall Summary of Distribution of Bituminous, Subbituminous, and Lignite Coal Produced in the United States."
- 1980 forward: Consumption data became available for some states and are used for this distribution series when available.
   See Additional Note 1 on page 13 for an explanation of the estimation methodology.
  - 1980 through 1995: EIA, Quarterly Coal Report, October-December for each year. Data are from the report of the following year, i.e., 1982 final data are published in the Quarterly Coal Report, October-December 1983. The specific tables are
    - 1980: Unpublished data.
    - 1981 through 1983: Table 26.
    - 1984 through 1990: Table 28.

- 1991 through 1994: Table 49.
- 1995: Table 41.
- 1996 through 1999: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Coal Industry Annual 2000, Table 71.
- 2000: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.gov/coal/annual/.

CLRCSUS — Residential sector share of coal consumed by the residential and commercial sectors combined.

- 1960 through 2007: Calculated by EIA. It is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1960, 1970, 1973 through 1981, and subsequent odd-numbered years), residential use of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of housing units heated by oil; the ratio is multiplied by the Btu quantity of distillate fuel oil used by the residential sector to estimate the Btu quantity of coal used by the residential sector; and the residential sector's share of residential and commercial use is calculated. The missing years' shares are interpolated.
- · 2008 forward: Discontinued.

## Coal coke imports and exports

## Physical units

Net imports of coal coke is a component of total U.S. energy consumption. There is no attempt to estimate state allocations of this energy source and all of it is considered to be used by the industrial sector. Net imports of coal coke are included in the U.S. data but not in the state-level data in all tables of total energy consumption and industrial sector energy consumption. Variables for net imports of coal coke into the United States are

CCIMPUS = coal coke imported into the United States, in thousand

short tons; and

CCEXPUS = coal coke exported from the United States, in thousand

short tons.

Net imports is calculated:

CCNIPUS = CCIMPUS - CCEXPUS

## British thermal units (Btu)

The factor for converting coal coke from short tons to Btu is 24.80 million Btu per short ton:

CCIMBUS = CCIMPUS \* 24.80 CCEXBUS = CCEXPUS \* 24.80 CCNIBUS = CCIMBUS - CCEXBUS

#### Data sources

CCEXPUS — Coal coke exported from the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coke and Coal Chemicals Annual."
- 1976 through 1979: EIA, *Energy Data Reports*, "Coke and Coal Chemicals Monthly."
- 1980 through 1990: EIA, *Quarterly Coal Report* (October-December of the following year). The specific tables are
  - 1980: Table 7.
  - 1981 through 1984: Table A10.
  - 1985 through 1990: Table A9.
- 1991 and 1992: Unpublished revisions from the EIA, Office of

- Energy Markets and End Use, Integrated Modeling Data System.
- 1993 through 1997: Unpublished revisions from the EIA, Office of Energy Markets and End Use, Integrated Modeling Data System, as published rounded in the EIA, Quarterly Coal Report October-December 1999, Table 2.
- 1998 forward: EIA, Monthly Energy Review, data from U.S. Department of Commerce, Bureau of the Census, Monthly Report EM 545.

#### CCIMPUS — Coal coke imported into the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals Annual."
- 1976 through 1979: EIA, Energy Data Reports, "Coke and Coal Chemicals Monthly."
- 1980 through 1990: EIA, *Quarterly Coal Report* (October-December of the following year). The specific tables are
  - 1980: Table 8.
  - 1981 through 1984: Table A12.
  - 1985 through 1987: Table A11.
  - 1988 through 1990: Table A10.
- 1991 and 1992: Unpublished revisions from the EIA, Office of Energy Markets and End Use, Integrated Modeling Data System.
- 1993 through 1997: Unpublished revisions from the EIA, Office of Energy Markets and End Use, Integrated Modeling Data System, as published rounded in the EIA, Quarterly Coal Report October-December 1999, Table 2.
- 1998 forward: EIA, Monthly Energy Review, data from U.S. Department of Commerce, Bureau of the Census, Monthly Report IM 145.

# Section 3. Natural gas

## Physical units

The State Energy Data System (SEDS) uses eight natural gas data series to derive its natural gas consumption estimates. Actual consumption data at the state level are not available. Several of these data series are deliveries of natural gas to consumers by state, which SEDS uses as consumption. SEDS sources its natural gas data, other than natural gas consumed by the electric power sector, from the *Natural Gas Annual* published by the U.S. Energy Information Administration (EIA) and its predecessors. These series, in million cubic feet, for each state are as follows (the two-letter state code is represented by "ZZ" in the following variable names):

NGCCPZZ = natural gas delivered to the commercial sector. Before 1996, includes gas used in agriculture, forestry, and fisheries:

NGINPZZ = a portion of the natural gas delivered to the industrial sector (includes gas used as fuel and feedstock in chemical plants and to produce carbon black).

Beginning in 1996, includes gas used in agriculture, forestry, and fisheries;

NGLEPZZ = natural gas consumed as lease fuel; NGPLPZZ = natural gas consumed as plant fuel;

NGPZPZZ = natural gas for pipeline and distribution use; NGRCPZZ = natural gas delivered to the residential sector; and

NGVHPZZ = natural gas consumed as vehicle fuel.

SEDS sources its data for natural gas consumption by the electric power sector from Form EIA-923, "Power Plant Operations Report," and predecessor forms. SEDS uses these data directly as estimates for electric power sector natural gas consumption.

NGEIPZZ = natural gas consumed by the electric power sector.

SEDS calculates the U.S. totals of these independent variables as the sum of the states' values.

SEDS combines data series other than natural gas consumed by the electric power sector into the four major end-use sectors as closely as possible. Before 1996, EIA collected and reported deliveries of natural gas for agriculture, forestry, and fisheries in the commercial sector. For

1996 forward, they were correctly reported in the industrial sector. SEDS makes no adjustment for this end-use inconsistency.

SEDS represents the residential sector's consumption of natural gas with the variable for deliveries to the residential sector, NGRCPZZ.

SEDS represents the commercial sector's consumption of natural gas with the variable for deliveries to the commercial sector, NGCCPZZ.

SEDS estimates the industrial sector's consumption of natural gas (NGICPZZ) to be the sum of natural gas delivered to the industrial sector (NGINPZZ), natural gas consumed as lease fuel (NGLEPZZ), and natural gas consumed as plant fuel (NGPLPZZ). For 1960 through 1982, SEDS contains lease and plant fuel data combined under NGLEPZZ. Beginning in 2001, EIA reported lease and plant fuel use in the federal offshore Gulf of Mexico region separately. SEDS apportions the volume to the states closest to the planning areas. See "Additional Notes" on page 25 for the method of estimating the individual state values.

NGICPZZ = NGINPZZ + NGLEPZZ + NGPLPZZ

The transportation sector's consumption of natural gas (NGACPZZ) is the sum of natural gas consumed in pipeline operations (primarily in compressors) and for distribution use (NGPZPZZ), and natural gas consumed as vehicle fuel (NGVHPZZ). Before 1990, the small amounts of natural gas consumed as vehicle fuel are included in the commercial sector consumption and cannot be identified separately; therefore, NGVHPZZ is zero before 1990.

NGACPZZ = NGPZPZZ + NGVHPZZ

SEDS represents the electric power sector's consumption of natural gas with the data series NGEIPZZ.

The total consumption of natural gas, estimated for each state, is the sum of the consumption by the end-use sectors and the electric power sector:

NGTCPZZ = NGRCPZZ + NGCCPZZ + NGICPZZ + NGACPZZ + NGEIPZZ

SEDS calculates the U.S. consumption estimates for each of the sectors

and the U.S. total as the sum of the states' values.

## British thermal units (Btu)

SEDS uses three state-level factors to convert the consumption of natural gas from physical units of million cubic feet to billion Btu. These factors are:

NGTCKZZ = factor for converting total natural gas consumed by all sectors from physical units to Btu:

NGEIKZZ = factor for converting natural gas consumed by the electric power sector from physical units to Btu; and

NGTXKZZ = factor for converting natural gas used by end-use sectors from physical units to Btu.

SEDS calculates total consumption of natural gas in billion Btu as follows:

NGTCBZZ = NGTCPZZ \* NGTCKZZ

Before 2010, SEDS calculates electric power sector consumption of natural gas in billion Btu as follows:

NGEIBZZ = NGEIPZZ \* NGEIKZZ

From 2010 forward, SEDS extracts NGEIBZZ directly from the data source to minimize rounding errors.

SEDS derives NGTXKZZ as:

NGTXKZZ = (NGTCBZZ - NGEIBZZ)/(NGTCPZZ - NGEIPZZ)

NGTXKZZ is then used to convert individual end-use sector consumption of natural gas from physical units to Btu, such as:

NGRCBZZ = NGRCPZZ \* NGTXKZZ

SEDS calculates the U.S. consumption estimates in Btu for each of the sectors and the U.S. total as the sum of the states' Btu values.

Before 1972, EIA did not collect data on conversion factors for natural gas consumed for electricity generation. SEDS uses the factor for all natural gas consumed (NGTCKZZ) for electric power (NGEIKZZ) and for the end-use sectors (NGTXKZZ) for 1963 through 1971. Before 1963, EIA did not collect data on state-level conversion factors for natural gas consumption. SEDS uses a standard factor of 1.035 thousand Btu per cubic foot for all sectors in all states.

## Supplemental gaseous fuels

Natural gas consumption contains a small amount of supplemental gaseous fuels (SGF). These fuels are introduced into or commingled with natural gas, and increase the volume available for disposition. Such fuels include, but are not limited to: synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas. Because SGF are mostly derived from fossil fuels, which are already accounted for, SEDS removes them from total energy consumption in Btu (see Sections 6 and 7) to eliminate double counting.

ElA's *Natural Gas Annual* has annual data on SGF supplies in physical units for each state from 1980 forward. For all states except North Dakota, SEDS uses this data series to approximate SGF contained in the natural gas delivered to users. See "Additional Note 2" on page 25 for the method of assigning North Dakota SGF supplies to North Dakota and other states for consumption. Btu consumption data before 1980 includes unknown quantities of SGF.

NGSFPZZ = supplemental gaseous fuels supplies by state in million cubic feet.

SEDS assumes that SGF are commingled with natural gas consumed by the commercial, other industrial, residential, and electric power sectors, but are not commingled with natural gas used for lease and plant fuel, pipelines, or vehicle fuel. SEDS estimates the consumption of SGF within each sector using the sector's natural gas consumption share.

NGTZPZZ = NGRCPZZ + NGCCPZZ + NGINPZZ + NGEIPZZ

SFCCPZZ = NGSFPZZ\*(NGCCPZZ/NGTZPZZ) SFINPZZ = NGSFPZZ\*(NGINPZZ/NGTZPZZ) SFRCPZZ = NGSFPZZ\*(NGRCPZZ/NGTZPZZ) SFEIPZZ = NGSFPZZ\*(NGEIPZZ/NGTZPZZ)

To convert SGF from physical units to Btu, SEDS uses the appropriate natural gas conversion factors:

SFCCBZZ = SFCCPZZ\*NGTXKZZ SFINBZZ = SFINPZZ\*NGTXKZZ SFRCBZZ = SFRCPZZ\*NGTXKZZ SFEIBZZ = SFEIPZZ\*NGEIKZZ

Total SGF consumed by state in Btu is equal to the sum of the four sectors with SGF:

SFTCBZZ = SFRCBZZ + SFCCBZZ + SFINBZZ + SFEIBZZ

SEDS calculates the U.S. consumption estimates for each of the variables and sectors and the U.S. total as the sum of the states' values.

## Natural gas excluding supplemental gaseous fuels in Btu

To facilitate data users who prefer the double-counting of SGF be removed from natural gas, SEDS calculates a set of variables for consumption of natural gas excluding supplemental gaseous fuels in Btu:

NNACBZZ = NGACBZZ

NNCCBZZ = NGCCBZZ - SFCCBZZ NNICBZZ = NGICBZZ - SFINBZZ NNRCBZZ = NGRCBZZ - SFRCBZZ NNEIBZZ = NGEIBZZ - SFEIBZZ NNTCBZZ = NGTCBZZ - SFTCBZZ

SEDS calculates the U.S. total consumption as the sum of the states' values.

## Total consumption of natural gas per capita

SEDS calculates total consumption of natural gas per capita as total natural gas consumption (including supplemental gaseous fuels) divided by the resident population ("TPOPP"). The energy indicators technical notes has information on residential population at <a href="http://www.eia.gov/state/seds/seds-technical-notes-complete.php">http://www.eia.gov/state/seds/seds-technical-notes-complete.php</a>.

SEDS calculates estimated total consumption of natural gas (including supplemental gaseous fuels) per capita for each state and the United States, in thousand cubic feet ("NGTPP") as:

NGTPP = NGTCP/TPOPP

SEDS calculates estimated total consumption of natural gas (including supplemental gaseous fuels) per capita for each state and the United States, in million Btu ("NGTPB") as:

NGTPB = NGTCB / TPOPP

#### Additional calculations

Although SEDS does not use U.S.-level conversion factors to calculate natural gas consumption, SEDS calculates these factors for reference and are shown in the natural gas tables in Appendix B, http://www.eia.gov/state/seds/seds-technical-notes-complete.php:

NGEIKUS = NGEIBUS / NGEIPUS NGTCKUS = NGTCBUS / NGTCPUS NGTXKUS = (NGTCBUS - NGEIBUS) / (NGTCPUS - NGEIPUS)

To produce price and expenditure data, SEDS differentiates between natural gas used in the transportation sector as pipeline fuel, which is not sold and has no price, and natural gas purchased and consumed as vehicle fuel. SEDS also differentiates between natural gas used as lease and plant fuel by the natural gas industry, which is not costed, and natural gas purchased by industrial consumers. SEDS calculates Btu values for the price and expenditure tables as follows:

NGPZBZZ = NGPZPZZ \* NGTXKZZ NGVHBZZ = NGVHPZZ \* NGTXKZZ NGLPPZZ = NGLEPZZ + NGPLPZZ NGLPBZZ = NGLPPZZ \* NGTXKZZ

SEDS calculates the U.S. totals for each series as the sum of the states' values.

### Additional notes

- 1. Beginning with 2001 data, federal offshore natural gas lease fuel consumption for Alabama, Louisiana, and Texas is reported combined under "Gulf of Mexico" in the source publication. To estimate each state's portion, SEDS totals data from the U.S. Department of the Interior, Bureau of Safety and Environmental Enforcement (BSEE, formerly the Bureau of Ocean Energy Management and Minerals Management Service) on natural gas production for the Eastern Gulf, Central Gulf, and Western Gulf areas. Alabama's share of the Gulf of Mexico lease fuel consumption is calculated in proportion to the Eastern Gulf's share of the production total; Louisiana's share is the same proportion as the Central Gulf share, and the Texas share is in proportion to the Western Gulf share. Between 2015 and 2016, BSEE revised the historical data for production by planning area. There is no longer any production for the Eastern Gulf area and Western Gulf production is revised downward. SEDS incorporated the revised data for 2001 forward.
- 2. In general, SGF supplies are small relative to total natural gas con-sumption, and SEDS assumes they are a good measure of SGF consumption. The only exception is North Dakota. Since 1985, North Dakota's volume of SGF supplies is significant and sometimes exceeds its total natural gas consumption. SEDS assumes that 10% of SGF produced in North Dakota is consumed

in the state and the rest is distributed to Iowa, Illinois, and Indiana through the Northern Border Pipeline, according to the capacity of the pipeline going into each state. The percentage allocations of the supplemental gaseous fuels supplies in North Dakota are as follows:

- From 1985 through 1998: North Dakota (10%), Iowa (90%).
- From 1999 forward: North Dakota (10%), Iowa (62%), Illinois (22%), Indiana (6%).
- 3. Beginning in 2009, pipeline and distribution use volumes include line loss, defined as known volumes of natural gas that were the result of leaks, damage, accidents, migration, and/or blow down.

#### Data sources

NGCCPZZ — Natural gas delivered to the commercial sector including natural gas consumed as vehicle fuel through 1989 and natural gas used in agriculture, forestry, and fisheries through 1995, by state.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States," column "Commercial."
- 1967 through 1988: EIA, Historical Natural Gas Annual 1930 Through 2000, Table 16, http://www.eia.gov/naturalgas/annual/archive.
- 1989 forward: EIA, Natural Gas Annual, State Summaries tables, also available at http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_ EPG0\_vcs\_mmcf\_a.htm.

NGEIBZZ — Natural gas consumed by the electric power sector, in billion Btu, by state.

- 1960 through 2009: computed in SEDS.
- 2010 forward: EIA, Form EIA-923, "Power Plant Operations Report, http://www.eia.gov/electricity/data/eia923/.

NGEIKZZ — Factor for converting natural gas consumed by the electric power sector from physical units to Btu by state.

 1960 through 1971: Assumed by EIA to be equal to the thermal conversion factor for the consumption of natural gas by all users (NGTCKZZ).

- 1972 through 1982: Calculated annually by EIA by dividing the total heat content of natural gas received at steam electric plants 25 megawatts or greater by the total quantity received at those electric plants. The heat contents and quantities received are from the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
- 1983 through 1988: The average heat content of natural gas received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published from 1993 forward in Btu per cubic foot in the EIA, Cost and Quality of Fuels for Electric Utility Plants, Table 14. Note: For states that reported consumption on EIA-759 but were not large enough to report on FERC Form 423, factors were estimated by using previous years' factors or the factor for total natural gas consumption in the state.
- 1989 forward: Calculated by dividing the total heat content of natural gas received at electric power plants (including electric utilities and independent power producers) by the total quantity consumed in physical units collected by EIA on Form EIA-923, "Power Plant Operations Report," and predecessor forms, http:// www.eia.gov/electricity/data/eia923/.

NGEIPZZ — Natural gas consumed by the electric power sector by state.

- 1960 through 1975: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data," table titled "Consumption of Fuel by Electric Utilities for Production of Electric Energy by state, Kind of Fuel, and Type of Prime Mover," sum of columns, "steam and gas turbine" and "internal combustion" under column heading "gas."
- 1976 through 1981: EIA, *Electric Power Annual* (1981), Table 67.
- 1982 through 1986: Unrounded data as published in rounded form in EIA, *Electric Power Annual*, 1986, Table 14.
- 1987: Unrounded data as published in rounded form in EIA, Electric Power Annual 1988, Table 13.
- 1988: Unrounded data as published in rounded form in EIA, Electric Power Annual 1989, Table 19.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/.

NGINPZZ — A portion of the natural gas delivered to the industrial sector, including natural gas used in agriculture, forestry, and fisheries beginning in 1996, by state.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States." Sum of data in columns "Carbon black," "Refinery fuel," and "Other industrial fuel" (which includes electric utility fuel) minus data in column "Fuel used at electric utility plants."
- 1967 through 1992: EIA, Historical Natural Gas Annual 1930 Through 2000, Table 16, http://www.eia.gov/naturalgas/annual/archive.
- 1993 through 1996: Unpublished data comparable to data contained in the *Natural Gas Annual*, State Summaries tables.
- 1997 forward: EIA, Natural Gas Annual, State Summaries tables, also available at http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_ EPG0\_vin\_mmcf\_a.htm.

NGLEPZZ — Natural gas consumed as lease fuel by state (includes natural gas consumed as plant fuel in 1960 through 1990).

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, Natural Gas chapter. State data are not available from 1960 through 1966, although U.S. totals are available. State estimates were calculated by apportioning the U.S. totals to the states on the basis of each state's share of the U.S. total in 1967.
- 1967 through 1982: EIA, Natural Gas Annual 1994 Volume II, Table 14.
- 1983 forward: EIA, Natural Gas Annual, State Summaries tables, also available at <a href="http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_EPG0\_vcl\_mmcf\_a.htm">http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_EPG0\_vcl\_mmcf\_a.htm</a>, and U.S. Department of the Interior, Bureau of Safety and Environmental Enforcement (BSEE) for additional gulf coast allocation for 2001 forward <a href="http://www.bsee.gov/">http://www.bsee.gov/</a>.

NGPLPZZ — Natural gas consumed as plant fuel by state.

 1960 through 1982: Included with natural gas consumed as lease fuel (see NGLEPZZ).  1983 forward: EIA, Natural Gas Annual, State Summaries tables, also available at http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_ EPG0 VCF mmcf a.htm.

NGPZPZZ — Natural gas consumed for pipeline and distribution use by state.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States," column "Used as pipeline fuel."
- 1967 through 1992: EIA, Natural Gas Annual 1994 Volume II, Table 14.
- 1993 through 1996: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 15. This report is available only via the Internet at http://www.eia.gov/naturalgas/annual/archive.
- 1997 forward: EIA, Natural Gas Annual, State Summaries tables, also available at http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_ EPG0\_vgp\_mmcf\_a.htm.

NGRCPZZ — Natural gas delivered to the residential sector, used as consumption, by state.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States," column "Residential."
- 1967 through 1988: EIA, Historical Natural Gas Annual 1930 Through 2000, Table 16, http://www.eia.gov/naturalgas/annual/archive.
- 1989 forward: EIA, Natural Gas Annual, State Summaries tables, also available at http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_ EPG0 vrs mmcf a.htm.

NGSFPZZ — Supplemental gaseous fuels supplies by state.

 1980 forward: EIA, Natural Gas Annual, Table 8, also available at http://www.eia.gov/dnav/ng/ng\_prod\_ss\_a\_EPG0\_ovi\_mmcf\_a. htm, supplemented by data extracted from the Natural Gas Annual Respondent Query System http://www.eia.gov/naturalgas/ngqs/. NGTCKZZ — Factor for converting natural gas consumed by all users from physical units to Btu by state.

- 1960 through 1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.
- 1963 through 1979: EIA adopted the thermal conversion factors calculated annually by the American Gas Association (AGA) and published in Gas Facts, an AGA annual.
- 1980 through 1996: EIA, Historical Natural Gas Annual 1930 Through 2000, Table 16, http://www.eia.gov/naturalgas/annual/archive.
- 1997 forward: EIA, Natural Gas Annual, Table 16, and unpublished revisions. Data from 2007 forward are also available at <a href="http://www.eia.gov/dnav/ng/ng\_cons\_heat\_a\_EPG0\_VGTH\_btucf">http://www.eia.gov/dnav/ng/ng\_cons\_heat\_a\_EPG0\_VGTH\_btucf</a> a.htm.

NGVHPZZ — Natural gas delivered for use as vehicle fuel by state.

- 1960 through 1989: Included in natural gas consumed by the commercial sector (See NGCCPZZ).
- 1990 through 1991: EIA, Historical Natural Gas Annual 1930 Through 2000, Table 16, http://www.eia.gov/naturalgas/annual/archive.
- 1992 through 2000: EIA, unpublished data from the Office of Coal, Nuclear, Electric, and Alternate Fuels (U.S. totals for 1992 forward and state values for 1997 forward) and from the Office of Energy Markets and End Use (state values for 1992 through 1996).
- 2001 forward: EIA, Natural Gas Annual, State Summaries tables, also available at <a href="http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_EPG0\_vdv\_mmcf\_a.htm">http://www.eia.gov/dnav/ng/ng\_cons\_sum\_a\_EPG0\_vdv\_mmcf\_a.htm</a>, supplemented by data extracted from the Natural Gas Annual Respondent Query System <a href="http://www.eia.gov/naturalgas/ngqs/">http://www.eia.gov/naturalgas/ngqs/</a>.

# Section 4. Petroleum

# **Petroleum overview**

The State Energy Data System (SEDS) estimates petroleum product consumption by state for many different individual products. At the national level, SEDS assumes consumption of each petroleum product is equal to the U.S. Energy Information Administration's (EIA) U.S. "product supplied" data series. Product supplied measures the disappearance of petroleum products from primary sources, i.e., refineries, natural gasprocessing plants, blending plants, pipelines, and bulk terminals. In general, EIA calculates product supplied of each product as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil, minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

No source data on state-level product supplied by sector are available, so SEDS estimates them. The following subsections describe the sources and methods for estimating petroleum product consumption by state and sector.

SEDS describes the estimation methods for 10 of these products in individual sections:

- asphalt and road oil
- · aviation gasoline
- distillate fuel oil
- · hydrocarbon gas liquids
- jet fuel
- kerosene
- lubricants
- motor gasoline
- · petroleum coke
- · residual fuel oil

SEDS describes the remaining products in the section "Other petroleum products" and include the following:

- · crude oil, including lease condensate
- · miscellaneous petroleum products
- petrochemical feedstocks, naphtha less than 401°F

- petrochemical feedstocks, other oils equal to or greater than 401°F
- petrochemical feedstocks, still gas
- · special naphthas
- still gas
- waxes
- unfinished oils
- · motor gasoline blending components
- · aviation gasoline blending components
- · biofuels product supplied

The last petroleum documentation section, "Petroleum summaries," describes how SEDS combines the petroleum products for each major end-use sector's estimated consumption.

#### Additional notes

- 1. SEDS assumes U.S. consumption of each petroleum product equals its total product supplied. Occasionally, product supplied for some petroleum products can have negative values (see Energy Information Administration (EIA) Petroleum Supply Annual Explanatory Notes, http://www.eia.gov/petroleum/supply/monthly/ pdf/psmnotes.pdf). No attempt is made to adjust for negative product supplied values in SEDS.
- 2. Beginning in the 2016 SEDS data cycle, "hydrocarbon gas liquids" (which covers normal butane, butylene, ethane, ethylene, isobutane, isobutylene, natural gasoline (pentanes plus), propane, and propylene) replaces "liquefied petroleum gases" (which includes all hydrocarbon gas liquids except natural gasoline) as a petroleum product. The definition of "other petroleum products" is revised to exclude petroleum coke and natural gasoline (formerly pentanes plus). Petroleum coke is reported as a separate product and natural gasoline is included in hydrocarbon gas liquids.

Table TN4.1 summarizes the petroleum products' sector assignments in SEDS. Shown in this table are the first four letters of the SEDS variable names. The first two letters identify the petroleum product and

Table TN4.1. Summary of petroleum products in the State Energy Data System

Petroleum products	Residential sector estimated consumption (RC)		Commercia sector estimated consumption (CC)		Industrial sector estimated consumpt (IC)	ion	Transportation sector estimated consumption (AC)		Electric power sect estimated consumption (EI)		Total sector estimated consumption (TC)
Asphalt and road oil (AR)					ARIC					=	ARTC
					+						+
Aviation gasoline (AV)							AVAC			=	AVTC
							+				+
Distillate fuel oil (DF)	DFRC	+	DFCC	+	DFIC	+	DFAC	+	DFEI	=	DFTC
	+		+		+		+		+		+
Hydrocarbon gas liquids (HL)	HLRC	+	HLCC	+	HLIC	+	HLAC			=	HLTC
	+		+		+		+				+
Jet fuel (JF)							JFAC	+	JFEU	=	JFTC
							+		+		+
Kerosene (KS)	KSRC	+	KSCC	+	KSIC					=	KSTC
			+		+						+
Lubricants (LU)					LUIC	+	LUAC			=	LUTC
					+		+				+
Motor gasoline (MG)			MGCC	+	MGIC	+	MGAC			=	MGTC
			+		+		+				+
Residual fuel oil (RF)			RFCC	+	RFIC	+	RFAC	+	RFEI	=	RFTC
			+		+		+		+		+
Petroleum coke (PC)			PCCC	+	PCIC	+			PCEI	=	PCTC
					+						+
Other petroleum products (OP)					OPIC	+	OPAC			=	OPTC
Total petroleum (PA)	PARC	— <sub>+</sub>	PACC	— <sub>+</sub>	PAIC		PAAC	— <sub>+</sub>	PAEI		PATC

the next two letters identify the energy-consuming sector. For example, the table shows that the aviation gasoline estimated to be consumed by the transportation sector is all aviation gasoline consumed, and that there is some estimated consumption of lubricants in the industrial and transportation sectors, while distillate fuel oil is consumed in every sector.

# Asphalt and road oil

## Physical units

The State Energy Data System (SEDS) estimates asphalt and road oil consumption by state for the industrial sector only. SEDS assigns all consumption of asphalt and road oil to the industrial sector because they are mostly used in construction activity, which is in the industrial sector. However, there are no state-level consumption source data available for asphalt and road oil. To estimate state-level asphalt and road oil consumption, SEDS uses other asphalt data series to allocate total U.S. consumption to the states. Before 2009, SEDS uses state-level sales data as state allocators. For 2009 forward, SEDS uses state-level production of hot-mix asphalt and warm-mix asphalt, excluding reclaimed asphalt pavement, as allocators. For data year 2022, SEDS uses preliminary data from the National Asphalt Pavement Association (NAPA).

The state-level asphalt and road oil sales and production data are in short tons, while the U.S.-level consumption data are in thousand barrels. SEDS only uses the tonnage data to allocate the U.S. consumption to the states so the data do not need to be converted into thousand barrels.

SEDS uses five data series to estimate consumption of asphalt and road oil (where "ZZ" in the variable name represents the two-letter state code that differs for each state):

ASINPZZ = asphalt sold for use in the industrial sector of each state, in short tons (through 2008);

ASPRPZZ = asphalt (hot-mix and warm-mix) production excluding reclaimed asphalt pavement in each state, in short tons (for 2009 forward);

ASTCPUS = asphalt total consumption in the United States, in thousand barrels (includes road oil from 1983 forward);

RDINPZZ = road oil sold for use in the industrial sector of each state, in short tons (through 1982); and

RDTCPUS = road oil total consumption in the United States, in thousand barrels (through 1982).

ASTCPUS represents total U.S. consumption of asphalt, and RDTCPUS represents total U.S. consumption of road oil. Both are the "product supplied" data series in the U.S. Energy Information Administration's (EIA) *Petroleum Supply Annual*. For 1983 forward, asphalt product supplied includes road oil, and SEDS assigns RDTCPUS a value of zero.

Before 2009, SEDS uses state-level asphalt sales data to allocate the U.S. consumption value to the states. ASINPZZ represents all asphalt sold as paving products, as roofing products, and for all other uses. RDINPZZ represents all sales of road oil. These data are from various sources depending on the year, and are: the Department of Interior (1960–1977), EIA (1978–1980), and the Asphalt Institute (1981–2008). SEDS estimates RDINPZZ for 1981 and 1982 as described under "Additional Notes" in this section. For 1983 forward, when the source includes road oil in asphalt product supplied data, SEDS assigns RDINPZZ a value of zero.

To calculate state consumption estimates of asphalt, SEDS sums total sales of asphalt and road oil in the United States to the industrial sector state data:

ASINPUS =  $\Sigma$ ASINPZZ RDINPUS =  $\Sigma$ RDINPZZ

Each state's consumption of asphalt in the industrial sector (ASICPZZ) is calculated to be in proportion to each state's sales:

ASICPZZ = (ASINPZZ / ASINPUS) \* ASTCPUS

ASICPUS =  $\Sigma$ ASICPZZ

RDICPZZ = (RDINPZZ / RDINPUS) \* RDTCPUS

 $RDICPUS = \Sigma RDICPZZ$ 

For 2009 forward, the Asphalt Institute no longer provides state-level asphalt sales data. To estimate state-level consumption, SEDS uses state-level production of hot-mix asphalt and warm-mix asphalt (HMA/WMA) excluding reclaimed asphalt pavement (RAP), ASPRPZZ, to allocate U.S. consumption to the states. The National Asphalt Pavement Association (NAPA) collects these data. The paving industry uses HMA/WMA, which contains about 5% asphalt binder (the petroleum product measured in SEDS). The use of recycled materials reduces the need of asphalt binder. So, SEDS removes RAP tonnage from HMA/WMA tonnage to estimate the state allocators. While estimates of HMA/WMA tonnage are available from the source for all states, the source withholds RAP estimates for some states. SEDS estimates the withheld state-level RAP tonnage.

 $ASPRPUS = \Sigma ASPRPZZ$ 

SEDS calculates each state's consumption of asphalt in the industrial sector (ASICPZZ) to be proportional to each state's HMA/WMA production:

Α

Н

Α

ח

ח

ASICPZZ = (ASPRPZZ / ASPRPUS) \* ASTCPUS ASICPUS = ΣASICPZZ

Because SEDS assumes the industrial sector uses all asphalt and road oil, total consumption in each state equals the industrial sector consumption:

ASTCPZZ = ASICPZZ RDTCPZZ = RDICPZZ

SEDS sums asphalt and road oil consumption:

ARICPZZ = ASICPZZ + RDICPZZ = ΣARICPZZ ARICPUS

ARTCPZZ = ASTCPZZ + RDTCPZZ

ARTCPUS =  $\Sigma$ ARTCPZZ

## British thermal units (Btu)

EIA assumes asphalt and road oil have a heat content value of 6.636 million Btu per barrel. SEDS uses this factor to convert estimated asphalt and road oil consumption from physical units to Btu:

ARICB77 = ARICPZZ \* 6.636

ARICBUS = ΣARICBZZ

Because SEDS assumes the industrial sector uses all asphalt and road oil, total consumption in each state and in the United States is assumed to equal the industrial sector consumption:

ARTCBZZ = ARICBZZ ARTCBUS = ARICBUS

# Additional notes

The federal government stopped collecting asphalt and road oil sales data after 1980. For 1981 through 2008, the Asphalt Institute is the source for these data. When companies did not respond to the voluntary survey, the Asphalt Institute did not estimate quantities to compensate for the nonresponse. This could cause large fluctuation in sales from year to year for some states.

For most years through 2008, the sources published combined asphalt and road oil sales data for Maryland and the District of Columbia to avoid disclosure of proprietary data. SEDS allocates the Maryland and District of Columbia shares based on their reported sales in 1974 (99.4% to

Maryland and 0.6% to the District of Columbia).

The EIA report series "Sales of Asphalt," and predecessor reports, which are the source for road oil sales by state (RDINPZZ) in SEDS for 1960 through 1980, discontinued after the 1980 report. For 1981 and 1982, SEDS estimates state road oil sales by first converting the annual total U.S. road oil product supplied data into short tons (one short ton contains 5.5 barrels of road oil). Then, SEDS allocates the U.S. total road oil product supplied, in short tons, to each state in proportion to the state's share of total U.S. asphalt sales as reported in the Asphalt Institute's Report on Sales of Asphalt in the United States.

For 2009 forward, SEDS uses production data from NAPA as state allocators.

#### Data sources

ASINPZZ — Asphalt sold to the industrial sector by state.

- 1960 through 1977: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Sales of Asphalt," the specific tables are
  - 1960 through 1962: Table 6.
  - 1963 through 1977: Table 5.
- 1978 through 1980: EIA, Energy Data Reports, "Sales of Asphalt," Table 2.
- 1981 through 1986: The Asphalt Institute, Asphalt Usage 1987 United States and Canada, Table B.
- 1987 and 1988: The Asphalt Institute, Asphalt Usage 1988 United States and Canada, Tables A and B for state data. Asphalt Usage 1989 United States and Canada, page 2 for revised U.S. totals. The Asphalt Institute did not publish corresponding revised state data but did advise EIA on an estimation procedure to adjust 19 state values to sum to the revised U.S. totals.
- 1989 through 1997: The Asphalt Institute, Asphalt Usage United States and Canada, table titled "U.S. Asphalt Usage."
- 1998 and 1999: The Asphalt Institute, Asphalt Usage United States and Canada, table titled "1998 vs. 1999 U.S. Asphalt Usage." 1998 data for Delaware, New Hampshire, Rhode Island, and Vermont are repeated for 1999 because nonresponse to the survey caused those states data for 1999 to be more than 75% lower than their 1998 values.
- 2000 through 2008: The Asphalt Institute, http://www.

asphaltinstitute.org/, Asphalt Usage Survey for the United States and Canada, table titled "U.S. Asphalt Usage."

ASPRPZZ — Hot-mix asphalt and warm-mix asphalt production excluding reclaimed asphalt pavement by state.

 2009 forward: National Asphalt Pavement Association, Asphalt Pavement Industry Survey on Recycled Materials and Warm-Mix Asphalt Usage, http://www.asphaltpavement.org/expertise/ sustainability/sustainability-resources/recycling.

ASTCPUS — Asphalt total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

RDINPZZ — Road oil sold to the industrial sector by state (through 1982).

- 1960 through 1977: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Sales of Asphalt." The specific tables are
  - 1960 through 1962: Table 6.
  - 1963 through 1977: Table 5.
- 1978 through 1980: EIA, Energy Data Reports, "Sales of Asphalt," Table 2.
- 1981 and 1982: EIA estimates. (See explanation in "Additional Notes" on page 32.)

RDTCPUS — Road oil total consumption in the United States (through 1982).

• 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual,"

Table 1.

- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 2.

# **Aviation gasoline**

### Physical units

For 1960 to 2014, the State Energy Data System (SEDS) uses three data series to estimate consumption of aviation gasoline:

AVMIPZZ = aviation gasoline issued to the military in each state, in thousand barrels:

AVNMMZZ = aviation gasoline sold to nonmilitary users in each

state, in thousand gallons; and

AVTCPUS = aviation gasoline total consumption in the United States, in thousand barrels.

The U.S. Department of Transportation, Federal Highway Administration publishes nonmilitary aviation gasoline sales data by state (AVNMMZZ) in Highway Statistics.

SEDS obtains AVMIPZZ, the issues of aviation gasoline to the military in each state, from the U.S. Department of Defense, Defense Logistics Agency.

Total U.S. consumption of aviation gasoline (AVTCPUS) is the product supplied data series from the U.S. Energy Information Administration (EIA) *Petroleum Supply Annual*.

The U.S. totals are the sum of the states:

AVMIPUS =  $\Sigma$ AVMIPZZ AVNMMUS =  $\Sigma$ AVNMMZZ

SEDS converts the state sales of nonmilitary aviation gasoline data from thousand gallons to thousand barrels (42 gallons = 1 barrel):

AVNMPZZ = AVNMMZZ / 42

The U.S. nonmilitary sales is the sum of the states' sales:

AVNMPUS =  $\Sigma$ AVNMPZZ

SEDS estimates the total sales of aviation gasoline as the sum of nonmilitary sales and military issues:

AVTTPZZ = AVNMPZZ + AVMIPZZ

AVTTPUS =  $\Sigma$ AVTTPZZ

SEDS assumes all aviation gasoline to be used by the transportation

sector.

SEDS estimates state-level aviation gasoline consumption by the transportation sector (AVACPZZ) by assuming that each state consumes aviation gasoline in proportion to the amount sold to that state:

AVACPZZ = (AVTTPZZ / AVTTPUS) \* AVTCPUS

AVACPUS =  $\Sigma$ AVACPZZ

Total aviation gasoline consumption in each state, AVTCPZZ, equals the transportation sector consumption in each state:

AVTCPZZ = AVACPZZ

For 2015 forward, SEDS uses a new method to estimate aviation gasoline consumption. Before 2022, EIA published annual prime supplier sales volumes of aviation gasoline by state, which include sales to military users, in the former *Petroleum Marketing Monthly* (PMM) and on the EIA website. For all states except Alaska and Hawaii, SEDS estimates withheld volumes using previous years' state shares.

For Hawaii, SEDS uses unpublished estimates of aviation gasoline fuel used for aircraft operating primarily in Hawaii from the Federal Aviation Administration's (FAA) General Aviation and Part 135 Activity Survey to approximate prime supplier sales. For 2020, FAA grouped the data for Hawaii and West Virginia under "Other States." To estimate both states, first SEDS estimates West Virginia's portion of the FAA "Other States" using EIA's prime supplier sales volume growth rate in 2020. Then SEDS calculates Hawaii as the remainder of the "Other States" total minus the West Virginia portion.

For Alaska, the prime supplier sales volume is very small because California distributors provide most of Alaska's aviation gasoline. Instead of using prime supplier sales, SEDS uses reported taxable volume of aviation gasoline from the Alaska Department of Revenue, Tax Division's Motor Fuel Tax Annual Report, calculated on a calendar year basis, to approximate aviation gasoline sales in Alaska.

To account for the volume of aviation gasoline shipped to Alaska, SEDS redefines California's prime supplier sales volume as the difference between total sales volumes of Petroleum Administration for Defense District (PADD) 5 and the sum of sales volumes of all other PADD 5 states.

In 2021, EIA discontinued its survey EIA-782 that provided aviation gasoline prime supplier sales volumes by state and as a result the data are no longer available. For 2022 forward, SEDS assumes aviation

gasoline sales for all states (including AK and HI) are equal to the 2021 state shares.

AVTTMZZ = aviation gasoline sold to all users in each state, in thousand gallons; and

SEDS calculates aviation gasoline sales in thousand barrels (AVTTPZZ) and applies their shares to total U.S. consumption (AVTCPUS) to estimate aviation gasoline consumption by state in the same way as prior years:

AVTTPZZ = AVTTMZZ / 42 AVTTPUS =  $\Sigma$ AVTTPZZ

AVACPZZ = (AVTTPZZ / AVTTPUS) \* AVTCPUS

AVACPUS =  $\Sigma$ AVACPZZ

AVTCPZZ = AVACPZZ

### British thermal units (Btu)

EIA assumes aviation gasoline has a heat content value of about 5.048 million Btu per barrel. SEDS applies this factor to convert aviation gasoline estimated consumption from physical units to Btu:

AVACBZZ = AVACPZZ \* 5.048AVACBUS =  $\Sigma$ AVACBZZ

Because SEDS assumes all aviation gasoline is used for transportation, aviation gasoline total consumption in each state and in the United States equals the transportation sector consumption:

AVTCBZZ = AVACBZZ AVTCBUS =  $\Sigma$ AVTCBZZ

#### Data sources

AVMIPZZ — Aviation fuel issued to the military in the United States by state (through 2014).

- 1960 through 1974: No data are available. The 1977 data are used for each year.
- 1975 and 1976: No consistent data series are available. The 1977 data are used for both years.
- 1977 through 1988: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Energy Information System, military retail issues based on fiscal year

- data. The District of Columbia issues are assumed to be zero; therefore, values reported for the District of Columbia are added to Maryland.
- 1989 and 1990: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. State data for the fiscal year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Intoplane values reported for the District of Columbia are added to Virginia.
- 1991 through 2003: U.S. Department of Defense, Defense Logistics Agency, Defense Energy Supply Center. State data for the calendar year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Into-plane values reported for the District of Columbia are added to Virginia.
- 2004 through 2014: U.S. Department of Defense, Defense Logistics Agency Energy. State data for product 130, Aviation Gasoline, Grade 100LL, by calendar year were used.

AVNMMZZ — Aviation gasoline sold to nonmilitary users by state (through 2014).

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.
- 1965 through 2014: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table G-24 (1965), Table MF-24 (1966 through 2006), and Table 8.4.3 (2007 forward).

AVTCPUS — Aviation gasoline total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum

Products, column titled "Products Supplied." The specific tables are

- 1981 through 2004: Table 2.
- 2005 forward: Table 1.

AVTTMZZ — Aviation gasoline sold to all users by state (2015 forward).

- 2015 forward:
  - EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_prim\_a\_EPPV\_P00\_Mgalpd\_a.htm.
  - For Alaska, unpublished monthly data from the Alaska Department of Revenue, Tax Division.
  - For Hawaii, unpublished data from the Federal Aviation Administration, General Aviation and Part 135 Activity Survey.
- 2022 forward: Assumed equal to the 2021 data.

# Distillate fuel oil

# Physical units

The State Energy Data System (SEDS) uses historical sales of distillate fuel oil into or within each state, formerly published in the U.S. Energy Information Administration's (EIA) *Fuel Oil and Kerosene Sales Report*, to estimate distillate fuel oil consumption by end-use sector. EIA suspended its *Fuel Oil and Kerosene Sales Report* after data year 2020. For 2021 forward, SEDS uses several external sources, regressions, and historical sector and state shares to estimate the *Fuel Oil and Kerosene Sales Report* data. SEDS assigns the following variable names to the sales series, in thousand barrels ("ZZ" in the variable names represents the two-letter state code that differs for each state):

DFBKPZZ =	distillate fuel oil sales for vessel bunkering use (i.e., the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and oceangoing vessels, including vessels operated by oil companies, and fueling for other marine purposes), excluding that sold to the military;
DFCMPZZ =	distillate fuel oil sales to commercial establishments
	for space heating, water heating, and cooking:

		ioi space ficaling, water ficaling, and cooking,
DFIBPZZ	=	distillate fuel oil sales to industrial establishments
		for space heating and for other industrial use (i.e.,
		for all uses to mines, smelters, plants engaged in
		producing manufactured products, in processing
		goods, and in assembling), including farm use;

		0 / 0//
DFMIPZZ	=	distillate fuel oil sales to the military, for all uses;
DFOCPZZ	=	distillate fuel oil sales for oil company use, including
		all fuel oil, crude oil, or acid sludge used as fuel a
		refineries, by pipelines, or in field operations;

		remierics, by pipelines, or in field operations,
DFOFPZZ	=	distillate fuel oil sales as diesel fuel for off-highway
		use in construction (i.e., earthmoving equipment,
		cranes, stationary generators, air compressors, etc.)
		and for off-highway uses other than construction
		(i.e., logging);

DFONPZZ = distillate fuel oil sales as diesel fuel for on-highway use (i.e., as engine fuel for trucks, buses, and automobiles):

DFOTPZZ = distillate fuel oil sales for all other uses not identified in other sales categories;

DFRRPZZ = distillate fuel oil sales to the railroads for use in fueling trains, operating railroad equipment, space heating of buildings, and other operations; and

DFRSPZZ = distillate fuel oil sales to the residential sector for space heating, water heating, and cooking,

excluding farm houses.

SEDS uses three additional data series to calculate distillate fuel oil consumption estimates:

DKEIPZZ = distillate fuel oil (including kerosene-type jet fuel before 2001) consumed by the electric power sector, in thousand barrels:

JKEUPZZ = kerosene-type jet fuel consumed by electric utilities, in thousand barrels (through 1982); and

DFTCPUS = distillate fuel oil total consumption in the United States, in thousand barrels.

EIA collects distillate fuel oil consumption in the electric power sector on Form EIA-923, "Power Plant Operations Report," and predecessor forms. Before 2001, the data series DKEIPZZ includes kerosene-type jet fuel consumed at electric utilities that is identified as JKEUPZZ. SEDS subtracts the kerosene-type jet fuel data from the distillate fuel oil data to avoid double counting. The kerosene-type jet fuel data are included in the SEDS jet fuel data. The source provides electric utility kerosene-type jet fuel consumption data for 1972 through 1982 only. SEDS assumes that consumption in all other years is zero. For 2001 forward, DKEIPZZ no longer contains kerosene-type jet fuel. SEDS continues to use DKEIPZZ to represent distillate fuel oil consumed by the electric power sector. (See Note 4 at the end of this distillate fuel oil section for further information on changes in this series' data definitions.)

Total consumption of distillate fuel oil in the United States, DFTCPUS, is the product supplied series in EIA's *Petroleum Supply Annual*. For 2011 forward, product supplied of distillate fuel oil includes all biofuels blended into distillate fuel oil. Before 2011, product supplied of distillate fuel oil only includes the portion of biofuels that was reported as refinery and blender net input.

First, SEDS calculates the U.S. totals of the state-level data series listed above as the sums of the state data.

Next, SEDS estimates the data series to the four end-use sectors used in SEDS. EIA suspended its *Fuel Oil and Kerosene Sales Report* after data year 2020. Before 2021, SEDS directly uses each data series from

the report. For 2021 forward, SEDS calculates the U.S.-level historical average end-use sector shares for 2015—2019 and applies them to the current year U.S. total for all end-use sectors. Then, SEDS uses these U.S. sector totals, external data sources, regression models, and historical state shares to estimate state-level sales.

The residential sector sales and the commercial sector sales contain only DFRSPZZ and DFCMPZZ, respectively. Before 2021, SEDS assigns the residential and commercial sector sales from the *Fuel Oil and Kerosene Sales Report* and predecessor data sources for those sectors. For 2021 forward, SEDS calculates linear regressions for each sector using historical state-level sales from the *Fuel Oil and Kerosene Sales Report* and state-level population-weighted Heating Degree Days (HDD) from the National Oceanic and Atmospheric Administration (NOAA). SEDS uses the state-level regression formulas and current-year HDDs to estimate sector sales for each state, except Hawaii. For Hawaii, SEDS does not use regression analysis with HDDs and instead applies the 2015—2019 state average share for each sector.

The industrial sector sales (DFINPZZ) are the sum of the data series for industrial heating and farm use (DFIBPZZ), oil company use (DFOCPZZ), off-highway use (DFOFPZZ), and all other uses (DFOTPZZ). Before 2021, SEDS assigns the sales from the *Fuel Oil and Kerosene Sales Report* and predecessor data sources. For 2021 forward, SEDS calculates the state-level historical average shares for each component for 2015—2019 and applies them to the current year U.S.-level industrial sector sales total.

DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ

DFINPUS =  $\Sigma$ DFINPZZ

The transportation sector sales (DFTRPZZ) are the sum of the data series for vessel bunkering (DFBKPZZ), military use (DFMIPZZ), railroad use (DFRRPZZ), and the diesel fuel used on-highway (DFONPZZ). Before 2021, SEDS assigns the sales from the *Fuel Oil and Kerosene Sales Report* and predecessor data sources. For 2021 forward, SEDS estimates on-highway sales using annual state-level diesel gross volumes taxed from the Federal Highway Administration's Form FHWA-551M. SEDS estimates railroad sales using U.S.-level data from the U.S. Surface Transportation Board (STB) and historical state-level shares for 2015—2019 from EIA's *Fuel Oil and Kerosene Sales Report*. SEDS estimates vessel bunkering and military sales using historical state-level shares for 2015—2019 from EIA's *Fuel Oil and Kerosene Sales Report*.

DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ

# DFTRPUS = $\Sigma$ DFTRPZZ

SEDS sums the sales of distillate fuel oil to the residential, commercial, industrial, and transportation sectors to create a subtotal of sales to all end-use sectors, DFNDPZZ:

DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ

DFNDPUS =  $\Sigma$ DFNDPZZ

Before 2001, SEDS calculates "pure" distillate fuel consumed by the electric power sector (DFEIPZZ) as the difference between DKEIPZZ and the amount of kerosene-type jet fuel consumed by electric utilities (JKEUPZZ):

DFEIPZZ = DKEIPZZ - JKEUPZZ

For 2001 forward, SEDS assumes consumption of distillate fuel oil in the electric power sector (DFEIPZZ) is the same as DKEIPZZ:

DFEIPZZ = DKEIPZZ

For all years, SEDS calculates the U.S. total as the sum of the states:

DFEIPUS =  $\Sigma$ DFEIPZZ

SEDS calculates the U.S. distillate fuel oil consumption by all end-use sectors, DFNCPUS, by subtracting the distillate fuel oil consumption by the electric power sector from the total U.S. distillate fuel oil consumption:

DFNCPUS = DFTCPUS - DFEIPUS

SEDS allocates the U.S. subtotal of distillate fuel oil consumption by the four end-use sectors, DFNCPUS, to the states by use of the end-use sectors' state level sales data. SEDS assumes that each state consumes distillate fuel oil in proportion to the amount of sales to that state:

DFNCPZZ = (DFNDPZZ / DFNDPUS) \* DFNCPUS

The end-use sectors' subtotal for each state, DFNCPZZ, is divided into estimates for the four end-use sectors in proportion to each sector's sales. SEDS calculates residential sector consumption in each state, DFRCPZZ, as:

DFRCPZZ = (DFRSPZZ / DFNDPZZ) \* DFNCPZZ

DFRCPUS =  $\Sigma$ DFRCPZZ

SEDS calculates the commercial sector's estimated consumption in

each state, DFCCPZZ, as:

DFCCPZZ = (DFCMPZZ / DFNDPZZ) \* DFNCPZZ

DFCCPUS =  $\Sigma$ DFCCPZZ

SEDS calculates the industrial sector's estimated consumption in each state, DFICPZZ, as:

DFICPZZ = (DFINPZZ / DFNDPZZ) \* DFNCPZZ

DFICPUS =  $\Sigma$ DFICPZZ

SEDS calculates the transportation sector's estimated consumption in each state, DFACPZZ, as:

DFACPZZ = (DFTRPZZ / DFNDPZZ) \* DFNCPZZ

DFACPUS =  $\Sigma$ DFACPZZ

SEDS estimates total state distillate fuel oil consumption as the sum of all end-use sectors consumption and electric power sector consumption:

DFTCPZZ = DFNCPZZ + DFEIPZZ

### British thermal units (Btu)

For 1994 forward, EIA calculates the annual U.S. distillate fuel oil Btu conversion factor, DFTCKUS, as a consumption-weighted average of the heat contents of three categories of distillate fuel oil by sulfur content. DFTCKUS is shown in Table B1 on page 207. For 1960 through 1993, SEDS uses a constant factor of 5.825 million Btu per barrel:

DFTCKUS = factor for converting distillate fuel oil from physical units to Btu.

SEDS applies this factor to convert estimated distillate fuel oil consumption for the five consuming sectors from physical units to Btu. For example, in the residential sector:

DFRCBZZ = DFRCPZZ \* DFTCKUS

SEDS calculates total Btu consumption of distillate fuel oil as the sum of the consumption by the four end-use sectors and the electric power sector:

DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ +

DFEIBZZ

SEDS calculates the U.S. Btu consumption estimates as the sum of all the states.

In the SEDS consumption tables, "Electric Power Sector Consumption Estimates," the data used in the column headed "Distillate Fuel Oil" is the variable DKEIP, which includes kerosene-type jet fuel before 2001, in physical units. The Btu variable, DKEIB, is calculated as follows (See page 63 for description of JKEUB):

DKEIBZZ = DFEIBZZ for 2001 forward DKEIBZZ = DFEIBZZ + JKEUBZZ before 2001

DKEIBUS =  $\Sigma$ DKEIBZZ

#### Additional notes

- "Deliveries" data are actually called "shipments" in the source document for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1987; and "sales" for 1988 forward.
- 2. State data for the variables DFONPZZ (on-highway use), DFOFPZZ (off-highway use), and DFOTPZZ (other) for 1967 are unavailable from published sources. These three variables compose the miscellaneous use category for distillate fuel oil, which is known for all years by state. State estimates of DFONPZZ and DFOFPZZ for 1967 were developed by dividing the 1966 values for DFONPZZ and DFOFPZZ by the 1966 total miscellaneous use for each state and applying these percentages to the 1967 total miscellaneous use for each state. The 1967 state estimates for DFOTPZZ are the remainder of the 1967 miscellaneous category after DFONPZZ and DFOFPZZ have been subtracted.
- 3. In 1979, EIA implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979.") In this survey form, certain end-use categories were redefined—in many cases to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in the State Energy Data System (SEDS) to conform with the 1979 fuel oil deliveries classifications. The pre-1979 deliveries estimates are not published in this report, but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into state and major end-use sector consumption estimates.

For distillate fuel oil deliveries in 1979, the end-use categories

called "residential," "commercial," "industrial," and "farm" are available. The pre-1979 deliveries categories are called "heating" and "industrial" (which included farm use). While the pre-1979 categories individually are not continuous with the 1979 categories, their subtotals are related. That is, a general comparison can be made between the sum of residential, commercial, industrial, and farm deliveries in 1979 and the sum of heating and industrial deliveries in the pre-1979 years. Therefore, the following method was applied to present a comparable series for distillate fuel oil delivered to the residential, commercial, and industrial sectors:

- For each of the pre-1979 years, a subtotal was created for each state by adding each state's heating and industrial deliveries categories. A comparable 1979 subtotal was created by adding each state's residential, commercial, industrial, and farm deliveries categories.
- Residential, commercial, and industrial (including farm) shares of the subtotal in 1979 were calculated for each state.
- These 1979 end-use shares were then applied to each pre-1979 subtotal of distillate fuel oil deliveries in each state to create state estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 distillate fuel oil deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual *Fuel Oil and Kerosene Sales Report.*" EIA did not conduct a fuel oil and kerosene deliveries survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the deliveries data for 1983 forward are reported in thousand gallons. These data are first converted to thousand barrels before being entered into SEDS.)

Some of the No. 2 diesel fuel reported as sold to the commercial and industrial sectors, DFCMPZZ and DFINPZZ, on the EIA forms may also be included in the on-highway data, DFONPZZ, obtained from the Federal Highway Administration. Included in the commercial sector is some diesel fuel consumed by government vehicles and school buses, and included in the industrial sector is some diesel fuel consumed by fleets of trucks. Because the specific quantities

- involved are unknown, SEDS reflects the diesel fuel consumption as reported in the EIA *Petroleum Marketing Monthly* (PMM) and no attempt has been made to adjust the end-use reporting.
- 4. The data on fuel oil consumed by the electric power sector for all years and states are actual fuel oil consumption numbers collected from electric power plants on Form EIA-923, "Power Plant Operations Report," and predecessor forms. Due to changes in fuel oil reporting classifications on the predecessor forms over the years, it is not possible to develop a thoroughly consistent series for all years. However, over time, data more accurately disaggregating fuel oil into distillate fuel oil and residual fuel oil have become available. For 1960 through 1969, only data on total fuel oil consumed at electric utilities by state are available. For 1970 through 1979, fuel oil consumed by plant type (internal combustion and gas turbine plants combined and steam plants) by state are available. For 1980 through 2000, data on consumption of light fuel oil at all plant types combined and consumption of heavy fuel oil at all plant types combined are available by state. For 2001 forward, data on consumption of distillate fuel oil and residual fuel oil are available. In SEDS, the following assumptions have been made:
  - 1960 through 1969—state estimates of fuel oil consumption by plant type have been created for each year by applying the shares of steam plants (primarily residual fuel oil) and internal combustion and gas turbine plants (primarily distillate fuel oil plus small amounts of jet kerosene) by state in 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
  - 1970 through 1979—fuel oil consumed by steam plants is assumed to equal residual fuel oil consumption, and fuel oil consumed by internal combustion and gas turbine plants is assumed to equal distillate fuel oil plus jet kerosene consumption.
  - 1980 through 2000—total heavy oil consumption at all plant types is assumed to equal residual fuel oil consumption, and total light oil consumption at all plant types is assumed to equal distillate fuel oil plus jet kerosene consumption.

The data series thus derived for SEDS for residual fuel oil and distillate fuel oil consumption by the electric power sector is considered to be actual consumption by the electric power for each state and each year.

Additional calculations

To assist data users in the analysis of consumption of fossil fuel sources and renewable energy sources, SEDS publishes several data series for distillate fuel oil consumption, excluding biodiesel and renewable diesel, for each state and the United States. The SEDS variables are:

DMACP = distillate fuel oil, excluding biodiesel and renewable diesel, consumed by the transportation sector, in thousand barrels:

DMTCP = distillate fuel oil, excluding biodiesel and renewable diesel, total consumption, in thousand barrels:

DMTCKUS = factor for converting distillate fuel, excluding

biodiesel and renewable diesel, from physical units

to Btu, in million Btu per barrel;

DMACB = distillate fuel oil, excluding biodiesel and renewable

diesel, consumed by the transportation sector, in

billion Btu; and

DMTCB = distillate fuel oil, excluding biodiesel and renewable

diesel, total consumption, in billion Btu.

The physical unit data for distillate fuel oil, excluding biodiesel and renewable diesel, consumed by the transportation sector in the United States (DMACPUS) come from EIA's *Monthly Energy Review* (MER). The unpublished MER data remove biodiesel and renewable diesel volumes reported as "refinery and blender net inputs" in EIA's *Petroleum Supply Annual* from distillate fuel oil, including biodiesel and renewable diesel, consumed in the transportation sector (DFACBUS) to estimate a "pure" petroleum diesel consumption. SEDS allocates DMACPUS to the states proportionally to SEDS estimated state-level distillate fuel oil consumption (including biodiesel and renewable diesel) in the transportation sector (DFACPZZ). SEDS converts the physical unit data to Btu using EIA's standard "pure" distillate fuel oil conversion factor (DMTCKUS) from the MER. SEDS sums distillate fuel oil consumption in all sectors to calculate state and U.S.-level distillate fuel oil, excluding biodiesel and renewable diesel, total consumption (DMTCB).

For 2009 forward, the SEDS formulas are:

DMACPZZ = (DFACPZZ / DFACPUS) \* DMACPUS

DMTCPZZ = DMACPZZ + DFCCPZZ + DFEIPZZ + DFICPZZ +

DFRCPZZ

DMACBZZ = DMACPZZ \* DMTCKUS DMTCBZZ = DMTCPZZ \* DMTCKUS

 $DMTCBUS = \Sigma DMTCBZZ$ 

Before 2009, SEDS assumes that biodiesel and renewable diesel were

D

not included in distillate fuel oil total consumption:

DMTCB = DFTCB

See discussion on biodiesel and renewable diesel in Section 5, "Renewable energy."

Distillate fuel oil excluding biodiesel and renewable diesel is used only in the tables showing primary energy consumption by source. For consumption by end-use sector, distillate fuel oil is defined as the product consumed by the end users, that is, including biodiesel and renewable diesel blended in with distillate fuel oil.

#### Data sources

DFBKPZZ — Distillate fuel oil sales for vessel bunkering use by state, excluding that sold to the military.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 17.
  - 1962 and 1963: Table 16.
  - 1964 and 1965: Table 15.
  - 1966 through 1975: Table 11.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 11.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, *Petroleum Marketing Monthly*, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_EPD0\_VVB\_ Mgal\_a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_EPD0\_VVB\_ Mgal\_a.htm.

DFCMPZZ — Distillate fuel oil sales to the commercial sector for space

heating, water heating, and cooking.

- 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of distillate fuel oil from the EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 commercial sector deliveries were applied to each state's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 39.)
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0 VCS Mgal a.htm.
- 1988 through 2020: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0\_VCS\_Mgal\_a.htm.
- 2021 forward: Internal SEDS regression formulas using commercial distillate fuel oil sales data from EIA's Fuel Oil and Kerosene Sales and population-weighted Heating Degree Days (HDD) from National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center (NCDC) ftp://ftp.ncdc.noaa. gov/pub/data/cirs/climdiv/ (use Microsoft Edge "Internet Explorer mode").

DFIBPZZ — Distillate fuel oil sales to industrial establishments for space heating and for other industrial use, including farm use by state.

1960 through 1978: EIA estimates based on statistics of industrial sector deliveries of distillate fuel oil from the EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 industrial sector deliveries were applied to each state's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports

E

- for each year 1960 through 1978. (See explanation in Note 3, on page 39.)
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet cons 821dst a EPD0 vin Mgal a.htm and http://www.eia.gov/dnav/pet/pet cons 821dst a EPD0 VFM Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet cons 821dst a EPD0 VFM Mgal a.htm and http://www.eia.gov/dnav/pet/pet cons 821dst a EPD0 vin Mgal a.htm.

DFMIPZZ — Distillate fuel oil sales to the military for all uses by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 18.
  - 1962 and 1963: Table 17.
  - 1964 and 1965: Table 16.
  - 1966 through 1975: Table 12.
- 1976 through 1978: EIA, Energy Data Reports, "Sales of Fuel Oil and Kerosene," Table 12.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet cons 821dst a

EPD0 VMI Mgal a.htm.

• 1988 forward: EIA. Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet cons 821dst a EPD0 VMI Mgal a.htm.

DFOCPZZ — Distillate fuel oil sales for use by oil companies by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 14.
  - 1962 and 1963: Table 13.
  - 1964 and 1965: Table 12.
  - 1966 through 1975: Table 9.
- 1976 through 1978: EIA, Energy Data Reports, "Sales of Fuel Oil and Kerosene," Table 9.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet cons 821dst a EPD0 VOC Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet cons 821dst a EPD0 VOC Mgal a.htm.

DFOFPZZ — Distillate fuel oil sales as diesel fuel for off-highway use by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 through 1962: Table 19.
  - 1963 and 1964: Table 18.
  - 1965 through 1967: Table 17.
  - 1968 through 1975: Table 14.

- 1976 through 1978: EIA, Energy Data Reports, "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD2D\_VHF\_Mgal\_a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_EPD2D\_VHF\_ Mgal\_a.htm.

DFONPZZ — Distillate fuel oil sales as diesel fuel for on-highway use by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 through 1962: Table 19.
  - 1963 and 1964: Table 18.
  - 1965 through 1967: Table 17.
  - 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene." Table 14.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD2D\_VHN\_Mgal\_a.htm.

- 1988 through 2020: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD2D VHN Mgal a.htm.
- 2021 forward: U.S. Department of Transportation, Federal Highway Administration (FHWA) form FHWA-551M http://www. fhwa.dot.gov/policyinformation/hss/guide/ch2.cfm and historical EIA Fuel Oil and Kerosene Sales data.

DFOTPZZ — Distillate fuel oil sales for all other uses not identified in other sales categories.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 through 1962: Table 19.
  - 1963 and 1964: Table 18.
  - 1965 through 1967: Table 17.
  - 1968 through 1975: Table 14.
- 1976 through 1978: EIA, Energy Data Reports, "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0\_VOE\_Mgal\_a.htm.
- 1988 through 1994: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0 VOE Mgal a.htm.
- 1995 forward: Series discontinued; no data available. Values are assumed to be zero.

DFRRPZZ — Distillate fuel oil sales for use by railroads by state.

 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are

- 1960 and 1961: Table 16.
- 1962 and 1963: Table 15.
- 1964 and 1965: Table 14.
- 1966 through 1975: Table 10.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 10.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0 VRR Mgal a.htm.
- 1988 through 2020: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0 VRR Mgal a.htm.
- 2021 forward: U.S. total from U.S. Surface Transportation Board (STB) Schedule 750 "Annual Report Financial Data" http://www.stb.gov/reports-data/economic-data/annual-report-financial-data/. State-level shares from historical EIA, Fuel Oil and Kerosene Sales.

DFRSPZZ — Distillate fuel oil sales to the residential sector for space heating, water heating, and cooking.

- 1960 through 1978: EIA estimates based on statistics of residential sector deliveries of distillate fuel oil from the EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 residential sector deliveries were applied to each state's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 39.)
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.

• 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0\_VRS\_Mgal\_a.htm.
- 1988 through 2020: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821dst\_a\_ EPD0 VRS Mgal a.htm.
- 2021 forward: Internal SEDS regression formulas using residential distillate fuel oil sales data from EIA's Fuel Oil and Kerosene Sales and population-weighted Heating Degree Days (HDD) from National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center (NCDC) ftp://ftp.ncdc.noaa.gov/pub/ data/cirs/climdiv/ (use Microsoft Edge "Internet Explorer mode").

DFTCKUS — Factor for converting distillate fuel oil from physical units to Btu.

- 1960 through 1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel, from the Bureau of Mines internal memorandum "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."
- 1994 forward: EIA calculates the national annual average thermal conversion factor, which includes biofuels blended into distillate fuel oil, by using heat content values of three sulfur-content categories of distillate fuel oil, weighted by quantity consumed. See Appendix B Table B1 on page 207.

DFTCPUS — Distillate fuel oil total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia.

gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are

- 1981 through 2004: Table 2.
- 2005 forward: Table 1.

DKEIPZZ — Distillate fuel oil consumed by the electric power sector, including kerosene-type jet fuel before 2001.

- EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms. The following assumptions have been made:
  - 1960 through 1969: Only total fuel oil consumed at electric utilities by state is available. State estimates of distillate fuel oil consumption were created for each year by applying the shares of internal combustion and gas turbine plants (primarily distillate fuel oil plus small amounts of jet fuel) by state from 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
  - 1970 through 1979: Fuel oil consumed by plant type by state is available. Fuel oil consumed by internal combustion and gas turbine plants combined is assumed to equal distillate and jet fuel consumption.
  - 1980 through 2000: Consumption of light fuel oil at all plant types by state is available. This is assumed to equal distillate and jet kerosene consumption.
  - 2001 forward: Consumption of distillate fuel oil is available.

DMACPUS — Distillate fuel oil, excluding biodiesel and renewable diesel, consumed by the transportation sector, in thousand barrels.

• 2009 forward: EIA, Monthly Energy Review, unpublished data

DMTCKUS — Factor for converting distillate fuel, excluding biodiesel and renewable diesel, from physical units to Btu, in million Btu per barrel.

• 2009 forward: EIA, Monthly Energy Review, Table A3

JKEUPZZ — Kerosene-type jet fuel consumed by the electric utility sector (through 1982). (See data sources for JKEUPZZ under "Jet Fuel" on page 63.)

# **Hydrocarbon gas liquids (1960–2009)**

Hydrocarbon gas liquids (HGL) cover natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) and refinery olefins (ethylene, propylene, butylene, and isobutylene). Refinery olefins are olefins produced at refineries and do not include olefins produced by the manufacturing industries. The State Energy Data System (SEDS) assumes that, except for propane, all other HGL products are consumed only by the industrial sector.

Historically, SEDS produced consumption estimates for liquefied petroleum gases (LPG), which included ethane/ethylene, isobutane/isobutylene, normal butane/butylene, propane/propylene, butane-propane mixtures, and ethane-propane mixtures. Pentanes plus (natural gasoline) and three other former products (natural gasoline, plant condensate, and unfractionated streams) were covered in "other petroleum products."

In mid-2010s, the U.S. Energy Information Administration (EIA) began using hydrocarbon gas liquids to describe the nine products and separated the refinery olefins from the natural gas liquids in its product supplied data for 2010 forward. SEDS adopted the HGL definition and applied new estimation methodologies for the individual HGL products for 2010 forward (see page 55). For 1960 through 2009, SEDS assumes HGL consumption to be the sum of LPG and pentanes plus (natural gasoline) consumption. The term "LPG" is no longer used after 2009.

# Liquefied petroleum gases (LPG)

Physical units

For 1960 through 2007, the following data series on LPG sales in thousand gallons are used in SEDS to estimate LPG consumption by state.

LGCBMZZ = LPG sold for internal combustion engine fuel use.
Included are sales for use in highway vehicles,
forklifts, industrial tractors, and for use in oil field
drilling, and production equipment, etc.;

D

S

LGHCMZZ = LPG sold for residential and commercial use. Included are sales for nonfarm private households for space heating, cooking, water heating, and other household uses, such as clothes drving and incineration. Also included are sales to nonmanufacturing organizations, such as motels, restaurants, retail stores, laundries, and other service enterprises, primarily for use in space heating, water heating, and cooking; and

LGTTPZZ = LPG total sales for all uses.

Data before 1984 were available from the Bureau of Mines reports, U.S. Energy Information Administration (EIA) reports, or were estimated by EIA. From 1984 through 2007, data were extracted from American Petroleum Institute's (API) Sales of Natural Gas Liquids and Liquefied Refinery Gases. Withheld state-level sales data are first estimated by EIA by using previous year's data and ensuring all subtotals match the source document.

The U.S. totals for each of these state-level data series are calculated as the sum of the state values.

Total U.S. consumption of LPG is the product supplied data series in EIA Petroleum Supply Annual:

LGTCPUS = LPG total consumption in the United States, in thousand barrels (through 2009).

Another variable is used in SEDS to estimate LPG consumption by the transportation sector:

LGTRSUS = the transportation sector share of LPG internal combustion engine sales (through 2009).

Its computation is described in detail in Note 2 on page 48.

Similarly, variables are used in SEDS to estimate LPG consumption by the residential and commercial sectors:

LGRCSZZ = the residential sector share of LPG residential and commercial sales (through 2009); and

LGCCSZZ = the commercial sector share of LPG residential and commercial sales (through 2009).

Their computation is described in detail in Note 3 on page 49.

Because the LPG sales data are in gallons, they must be converted to barrels (42 U.S. gallons per U.S. barrel) to be comparable to total consumption estimates. The formulas for calculating state sales data are

LGCBPZZ = LGCBMZZ/42 $LGCBPUS = \Sigma LGCBPZZ$ LGHCPZZ = LGHCMZZ/42LGHCPUS =  $\Sigma$ LGHCPZZ

It is also assumed that LPG sales to the residential and commercial sectors are equal to the consumption in those sectors. LPG consumption by the residential sector is estimated to be the residential share of propane sales for the residential and commercial sectors:

LGRCPZZ = LGHCPZZ \* LGRCSZZ

LPG consumption by the commercial sector is estimated to be the commercial share of propane sales for the residential and commercial sectors:

LGCCPZZ = LGHCPZZ \* LGCCSZZ

LPG consumption by the transportation sector is estimated to be the transportation share of the sales for internal combustion engine fuel:

LGACPZZ = LGCBPZZ \* LGTRSUS

An estimate of each state's total LPG consumption (LGTCPZZ) is made by allocating the U.S. total consumption to the states in proportion to each state's share of the U.S. total sales:

LGTCPZZ = (LGTTPZZ / LGTTPUS) \* LGTCPUS

Industrial sector consumption (LGICPZZ) for each state is the difference between the state's total LPG consumption and the sum of its residential, commercial, and transportation sectors' consumption:

= LGTCPZZ - (LGACPZZ + LGCCPZZ + LGRCPZZ) LGICPZZ

U.S. totals for the four end-use sector consumption estimates are calculated as the sums of the state estimates.

For 2008 and 2009, the API report only covers sales of propane (including propylene). A new methodology is developed to estimate state-level propane consumption and all other LPG consumption. For propane consumption, API's state shares of propane sales are applied to the U.S. propane product supplied published in EIA's Petroleum Supply Annual (PSA).

In SEDS, it is assumed that LPG consumed by the residential, commercial, and transportation sectors and for internal combustion fuel is solely propane. The propane consumption for the residential and consumption sectors and for internal combustion engine fuel use are assigned to LGHCMZZ and LGCBMZZ respectively. The same methodology used for 1960 through 2007 to derive LPG consumption for the residential, commercial, and transportation sectors is maintained:

LGCBPZZ = LGCBMZZ / 42 LGHCPZZ = LGHCMZZ / 42

LGRCPZZ = LGHCPZZ \* LGRCSZZ LGCCPZZ = LGHCPZZ \* LGCCSZZ LGACPZZ = LGCBPZZ \* LGTRSUS

LPG consumption for the industrial sector, LGICP, is estimated by summing the estimates for the four components:

- Propane State-level industrial consumption is calculated by subtracting residential, commercial, and transportation sector consumption from total propane consumption.
- Ethane Data on ethane feed slate capacity of ethylene steam crackers published by the *Oil and Gas Journal* (OGJ) are used to compute a set of state-level preliminary ethane demand, using an ethylene yield factor of 0.8 and a conversion factor of 16.85 barrels per metric ton. Ethane estimates for the two largest consuming states, Louisiana and Texas (where most, if not all, flexible crackers are located), are further adjusted so that the sum of all states' ethane consumption matches the U.S. ethane product supplied published in PSA.
- Normal butane (n-butane) consumed by steam crackers is estimated using data on n-butane feed slate capacity from OGJ and applied them to the U.S. ethylene feed slate demand for n-butane, also available from OGJ. N-butane for other uses, defined as U.S. n-butane total product supplied less ethylene feed slate demand, is allocated to Texas.
- Isobutane The U.S. product supplied of isobutane is allocated to Texas.

N-butane and isobutane used in gasoline blending and alkylation at the refineries are accounted for in intermediate product processing and not considered end-use consumption.

U.S. totals for the four end-use sector consumption estimates are calculated as the sums of the state estimates.

Table TN4.2. Percentages used to disaggregate Maryland and D.C. combined LPG sales data, 1960 through 2007

Sales Category	Maryland	D.C.	
Residential and commercial	99.9%	0.1%	
Internal combustion engine fuel	98.9%	1.1%	
Industrial	99.4%	0.6%	
Chemical	100.0%	0.0%	
Utility gas	100.0%	0.0%	
Miscellaneous	100.0%	0.0%	

Total LPG consumption, LGTCP, is the sum of the four end-use sectors' LPG consumption:

LGTCPZZ = LGACPZZ + LGCCPZZ + LGICPZZ + LGRCPZZ

### British thermal units (Btu)

The Btu consumption of LPG for the United States, LGTCBUS, is extracted from EIA's *Annual Energy Review* and *Monthly Energy Review*. It is calculated by multiplying total physical unit consumption (LGTCPUS) with an average conversion factor for LPG. The factor for converting LPG from physical unit values to Btu, LGTCKUS, is calculated annually for 1967 through 2009 by EIA as a consumption-weighted average of the heat contents of the component products (ethane, propane, normal butane, and isobutane) as shown in Appendix B, beginning on page 225. For 1960 through 1966, EIA adopted the 1967 calculated average heat content of 3.810 million Btu per barrel.

LGTCBUS = LPG total consumption in the United States, in billion Btu (through 2009); and

LGTCKUS = Factor for converting U.S. consumption of LPG from physical units to Btu (through 2009).

Because the residential, commercial, and transportation sectors consume mainly propane, it is more appropriate to use the heat content of propane (3.841 million Btu per barrel) to convert LPG consumption for these three sectors into Btu:

LGACBZZ = LGACPZZ \* 3.841 LGCCBZZ = LGCCPZZ \* 3.841 LGRCBZZ = LGRCPZZ \* 3.841

The U.S. totals for the three sectors are the sum of the state estimates.

Industrial sector consumption for the United States is calculated by subtracting the three sectors' consumption estimates from the total:

**Table TN4.3. Transportation sector share of LPG internal** combustion engine use, 1960 through 2009

Year	<b>LGTRSUS</b>	Year	LGTRSUS	Year	<b>LGTRSUS</b>
1960	0.229	1977	0.478	1994	0.734
1961	0.258	1978	0.594	1995	0.416
1962	0.266	1979	0.536	1996	0.337
1963	0.273	1980	0.380	1997	0.278
1964	0.259	1981	0.671	1998	0.592
1965	0.290	1982	0.579	1999	0.364
1966	0.325	1983	0.578	2000	0.215
1967	0.368	1984	0.631	2001	0.204
1968	0.389	1985	0.440	2002	0.325
1969	0.341	1986	0.456	2003	0.403
1970	0.363	1987	0.375	2004	0.365
1971	0.423	1988	0.437	2005	0.513
1972	0.392	1989	0.428	2006	0.496
1973	0.384	1990	0.471	2007	0.370
1974	0.381	1991	0.426	2008	0.796
1975	0.406	1992	0.425	2009	0.629
1976	0.440	1993	0.443		

LGICBUS = LGTCBUS - (LGACBUS + LGCCBUS + LGRCBUS)

Industrial sector consumption for each state is estimated by allocating the U.S. industrial consumption to the states in proportion to the physical unit share:

LGICBZZ = (LGICPZZ / LGICPUS) \* LGICBUS

Total estimated consumption of LPG is the sum of the end-use sector consumption estimates:

LGTCBZZ = LGACBZZ + LGCCBZZ + LGICBZZ + LGRCBZZ

The average conversion factor for industrial consumption of LPG, LGICKUS, is calculated for use in the price computation:

LGICKUS = LGICBUS / LGICPUS

#### Additional notes

1. Sales data for Maryland and the District of Columbia (D.C.) are combined in the source documents through 2009. Sales data are published in six categories through 2007. The percentages shown in

Table TN4.4. State shares of the total U.S. LPG sold for chemical use, 1960 through 1978

State	Percent	State	Percent
Alabama	0.000	Montana	0.000
Alaska	0.589	Nebraska	0.000
Arizona	0.000	Nevada	0.000
Arkansas	0.000	New Hampshire	0.000
California	2.667	New Jersey	2.040
Colorado	0.232	New Mexico	0.603
Connecticut	0.053	New York	0.000
Delaware	0.811	North Carolina	0.327
District of Columbia	0.000	North Dakota	0.000
Florida	0.000	Ohio	1.103
Georgia	0.699	Oklahoma	0.309
Hawaii	0.000	Oregon	0.000
Idaho	0.000	Pennsylvania	0.354
Illinois	7.066	Rhode Island	0.000
Indiana	0.243	South Carolina	0.021
lowa	0.900	South Dakota	0.000
Kansas	0.451	Tennessee	0.000
Kentucky	2.548	Texas	57.425
Louisiana	20.566	Utah	0.000
Maine	0.012	Vermont	0.000
Maryland	0.050	Virginia	0.025
Massachusetts	0.009	Washington	0.000
Michigan	0.151	West Virginia	0.286
Minnesota	0.000	Wisconsin	0.000
Mississippi	0.315	Wyoming	0.091
Missouri	0.054	United States	100.000

Table TN4.2 are applied to disaggregate the state data in each of the sectors for these years. For 2008 and 2009, the same percentages for the residential and commercial, and internal combustion engine fuel shown in Table TN4.2 are applied to the combined Maryland and D.C. sales for those sales categories. The percentages for the remaining categories are combined using the 2007 data for those categories, resulting in 99.79% for Maryland and 0.21% for D.C. These percentages are applied to the remaining volumes of the combined Maryland and D.C. sales.

2. Sales of LPG for internal combustion engine fuel use are divided between the transportation sector and the industrial sector by using LGTRSUS, the transportation sector's share of internal combustion engine use. LGTRSUS is estimated from data on "special fuels used on highways," a category that includes only LPG and diesel fuel. The special fuels data are published by the U.S. Department of Transportation, Federal Highway Administration (see MGSFPZZ on page 77). The quantity of LPG included in special fuels is estimated each year. LGTRSUS is then derived by dividing the quantity of LPG included in special fuels used on highways by the quantity of LPG sold for internal combustion engine use. This U.S. factor is applied to the internal combustion engine use of each state. LGTRSUS values are shown in Table TN4.3.

- 3. The shares of propane used by the residential (LGRCS) and commercial (LGCCS) sectors for each state are based on propane sales data in the API report for 2003 through 2009. The average shares of 2003 through 2008 are applied to the earlier years. Data for LPG sold for residential and commercial use are then split into the two end-use sectors using these two variables.
- 4. LPG sales data by state and end-use categories for 1960 through 1982 are from EIA's "Sales of Liquefied Petroleum Gases and Ethane." In 1979, EIA modified the LPG sales survey, Form EIA-174, and changed the list of respondents. Because of the updated sampling frame, the 1979 through 1982 sales data may not be directly comparable to the pre-1979 sales when a different estimation procedure was used. Explanation of the discontinuities caused by the change in the 1979 sampling frame are provided in EIA's Energy Data Report, "Sales of Liquefied Petroleum Gases and Ethane in 1979." Because of the change in survey techniques used for measuring LPG sales, many states' data were withheld from publication in the 1979 through 1982 LPG sales reports to avoid disclosure of company-level data. The consumption estimates in SEDS use all data published in the 1979 through 1982 LPG sales reports and estimates prepared by EIA's Office of Oil and Gas for data that were withheld from publication. (See Note 5 following for estimation procedures.) Some end-use categories changed in 1979 due to redefinition of the classifications. One of these changes, for example, occurred with LPG sold to farms for household heating and cooking. Before 1979 these sales were reported as part of the residential and commercial category, while in 1979 they were counted in the farm use category that goes into the industrial sector in SEDS. No attempt has been made to adjust for this type of inconsistency. The Form EIA-174 was cancelled after collection of 1982 data. The 1983 LPG consumption estimates are based on the assumption that LPG end-use sector demand in 1983 occurred in the same

- proportion as 1982 sector demand within each state; i.e., the 1983 LPG product supplied figure was allocated to the states by using the distribution of volumes consumed for 1982.
- 5. The following procedures were used to estimate the state end-use sales that were withheld from publication in the 1979-1982 LPG sales reports:
  - For each year, missing state total sales were estimated by allocating the sum of the missing state sales within each Petroleum Administration for Defense (PAD) district to the individual states, in proportion to the sum of the known enduse sales for those states.
  - Missing PAD district end-use totals for 1979 and 1980 were obtained by using the 1980 and 1981 sales reports. Missing PAD district chemical sales were estimated by allocating the total missing volume of chemical sales to the PAD district in proportion to the number of chemical plants in each PAD district. The remaining PAD district end-use totals were obtained by subtraction. For 1981 and 1982, no PAD district estimations were necessary because all PAD district end-use totals are known.
  - The published data and the estimated state and PAD district end-use totals were used to estimate missing state enduse sales volumes within a PAD district: missing state enduse sector values were estimated by allocating the missing volume for the state approximately proportional to the PAD district end-use sector totals.
- 6. Before 1979, state data for chemical use of LPG were withheld from publication, although they were included in the U.S. total in the tables in EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports. Beginning in 1979, state-level chemical use data were published in the LPG sales reports, but data for several states were withheld. Estimates for the withheld data for chemical use sales for 1979 and 1980 were created by using the estimation procedure described in Note 5 on page 49. Then the published and the estimated state data for 1979 were used to create state shares of the total U.S. chemical use sales. These percentage shares (shown in Table TN4.4) were applied to the total U.S. LPG chemical use sales in 1960 through 1978 to create state chemical use estimates. The chemical use estimates were added to the states' total LPG sales series, LGTTPZZ.
- 7. For 1984 through 2007, the American Petroleum Institute (API), the Gas Processors Association, and the National LP-Gas Association

jointly sponsored an LPG sales survey. The results are published in the API's report *Sales of Natural Gas Liquids and Liquefied Refinery Gases*. These data include sales of natural gasoline (pentanes plus); the natural gasoline data were removed by EIA before use in SEDS.

For 1997 through 2007, API incorporated additional imports and exports data in their estimates. Those trade data are also removed by EIA before use in SEDS.

#### Data sources

LGCBMZZ — LPG sold for internal combustion engine use by state (through 2009). Note: Data for Maryland and the District of Columbia are combined for all years. The method for disaggregating the data is explained in Note 1, on page 48.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are
  - 1960 and 1961: Table 5 (data called "Shipments").
  - 1962 through 1966: Table 2 (data called "Consumption").
  - 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual*, "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.

Note: For 1984 through 2009, some data are adjusted and estimated by EIA. (See explanation in Note 7 on page 49.)

- 1984 through 1988: American Petroleum Institute, 1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, 1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 4, 5, 18, and 19.
- 1992 through 2007: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table 3.
- 2008 and 2009: EIA estimates based on propane sold for internal combustion engine use by state, published by the American

Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table B.

LGCCSZZ — Commercial sector share of residential and commercial sales of LPG (through 2009).

- 1960 through 2002: EIA estimates based on the residential and commercial shares of propane used by the residential and commercial sectors published by the American Petroleum Institute.
- 2003 through 2007: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table 3.
- 2008 and 2009: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table B.

LGHCMZZ — LPG sold for residential and commercial use by state (through 2009). Note: Data for Maryland and the District of Columbia are combined for all years. The method for disaggregating the data is explained in Note 1, on page 48.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are
  - 1960 and 1961: Table 5 (data called "Shipments").
  - 1962 through 1966: Table 2 (data called "Consumption").
  - 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual*, "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.

Note: For 1984 through 2009, some data are adjusted and estimated by EIA. (See explanation in Note 7, on page 49).

- 1984 through 1988: American Petroleum Institute, 1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, 1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 4, 5,

- 18, and 19.
- 1992 through 2007: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table 3.
- 2008 and 2009: EIA estimates based on propane sold for residential and commercial use by state, published by the American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table B.

LGICPZZ — LPG consumed by the industrial sector (through 2009).

- · 1960 through 2007: Calculated in SEDS.
- 2008 and 2009: Estimated by EIA, based on U.S. product supplied, EIA Petroleum Supply Annual and data on ethylene feed slate capacity and normal butane demand from the Oil and Gas Journal.

LGRCSZZ — Residential sector share of residential and commercial sales of LPG (through 2009).

- 1960 through 2002: EIA estimates based on the residential and commercial shares of propane used by the residential and commercial sectors published by the American Petroleum Institute.
- 2003 through 2007: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table 3.
- 2008 and 2009: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table B.

LGTCBUS — LPG total consumption in the United States, in billion Btu (through 2009).

- 1960 through 1972: EIA, Annual Energy Review, Table 5.12.
- 1973 through 2009: EIA, Monthly Energy Review, Table 3.6.

LGTCKUS — Factor for converting LPG from physical units to Btu (through 2009).

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote, constant value of 4.011 million Btu per barrel.
- 1967 through 2009: Calculated annually by EIA as a weighted average by multiplying the quantity consumed of each of the

component products by each product's conversion factor and dividing the sum of those heat contents by the sum of the quantities consumed. The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. Their heat content conversion factors are listed in Appendix B beginning on page 207. Quantities consumed are from

- 1967 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 through 2009: EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied."
- The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 through 2009: Table 1.

LGTCPUS — LPG total consumption in the United States (through 2009).

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 through 2009: EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 through 2009: Table 1.

LGTRSUS — The transportation sector share of LPG internal combustion engine sales (through 2009).

 EIA estimates based on the LPG portion of the special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration (variable MGSFPUS in SEDS), as a percentage of the LPG sold for internal combustion engine use published by the American Petroleum Institute (variable LGCBMUS in SEDS). For an explanation of the estimation

method, see Note 2, on page 48.

LGTTPZZ — LPG total sales for all uses by state (through 2009).

Note: Data for Maryland and the District of Columbia are combined for all years. The method for disaggregating the data is explained in Note 1, on page 48.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are
  - 1960 and 1961: Table 5 (data called "Shipments").
  - 1962 through 1966: Table 2 (data called "Consumption").
  - 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, Energy Data Reports, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.

Note: For 1984 through 2009, some data are adjusted and estimated by EIA. (See explanation in Note 7, on page 49).

- 1984 through 1988: American Petroleum Institute, 1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, 1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 4, 5, 18, and 19.
- 1992 through 2007: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table 3.
- 2008 and 2009: EIA estimates based on propane sold for internal combustion engine use by state, published by the American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table B.

# **Natural gasoline (formerly pentanes plus)**

Before 2010, natural gasoline (formerly called pentanes plus) consumption is assumed to be equal to historical pentanes plus consumption, which included historical natural gasoline, plant condensate, pentanes plus, and unfractionated streams.

NATCPUS = historical natural gasoline (including isopentane) total consumption in the United States, in thousand barrels (through 1983);

PLTCPUS = plant condensate total consumption in the United States, in thousand barrels (through 1983);

PPTCPUS = pentanes plus (natural gasoline) total consumption in the United States, in thousand barrels (1984

through 2009); and

USTCPUS = unfractionated streams total consumption in the United States, in thousand barrels (through 1983).

All natural gasoline consumption is assumed to be in the industrial sector. This section covers natural gasoline consumption for 1960 through 2009.

For 2010 forward, SEDS reports natural gasoline (pentanes plus) as a HGL product. See Hydrocarbon Gas Liquids (2010 Forward).

## Physical units

Natural gasoline (formerly pentanes plus) is used mainly as petrochemical feedstocks in the same way as naphtha. All natural gasoline consumption is assumed to be in the industrial sector.

Historical natural gasoline (including isopentane), plant condensate, and unfractionated streams are discontinued from the source after 1983. Beginning in 1984, historical natural gasoline and plant condensate are reported together as a new product, pentanes plus; and unfractionated streams are discontinued because its components are reported separately as liquefied petroleum gases. These products are used mostly as petrochemical feedstocks.

To allocate the U.S. consumption of these products to the states, the state shares of capacity of steam crackers using napthas (FNCASZZ) are used. The method of estimation of FNCASZZ is discussed on page 91.

Historical natural gasoline (including isopentane) state and U.S. consumption are estimated:

NATCPZZ = NATCPUS \* FNCASZZ

NAICPZZ = NATCPZZ NAICPUS = NATCPUS

Pentanes plus (natural gasoline) state and U.S. consumption are estimated:

PPTCPZZ = PPTCPUS \* FNCASZZ

PPICPZZ = PPTCPZZ PPICPUS = PPTCPUS

Plant condensate state and U.S. consumption are estimated:

PLTCPZZ = PLTCPUS \* FNCASZZ

PLICPZZ = PLTCPZZ PLICPUS = PLTCPUS

Unfractionated streams state and U.S. consumption are estimated:

USTCPZZ = USTCPUS \* FNCASZZ

USICPZZ = USTCPZZ USICPUS = USTCPUS

### British thermal units (Btu)

Btu estimates for the four historical natural gasoline (pentanes plus) products are developed by multiplying each individual product's estimated consumption in physical units by its respective approximate heat content conversion factor. The calculations performed to estimate total Btu consumption and industrial use Btu consumption by state and for the United States are

NATCBZZ = NATCPZZ \* 4.638

NATCBUS =  $\Sigma$ NATCBZZ NAICBZZ = NATCBZZ

NAICBUS = NATCBUS

PLTCBZZ = PLTCPZZ \* 5.418

PLTCBUS =  $\Sigma$ PLTCBZZ PLICBZZ = PLTCBZZ PLICBUS = PLTCBUS

PPTCBZZ = PPTCPZZ \* 4.638

 $PPTCBUS = \Sigma PPTCBZZ$ PPICBZZ = PPTCBZZ

PPICBUS = PPTCBUS

USTCBZZ = USTCPZZ \* 3.800

USTCBUS = SUSTCBZZ USICBZZ = USTCBZZ USICBUS = USTCBUS

#### Additional note

Before the 2010 cycle, natural gasoline (pentanes plus) was allocated to

the states in proportion to the value of shipments or value added in the manufacture of industrial organic chemicals from the Economic Censuses collected by the U.S. Census Bureau. Organic chemical manufacturing was used because state-level data for petrochemical manufacturing were not available. This resulted in the allocation of petrochemical feedstocks to more than 25 states, most of which did not produce petrochemicals. The steam cracker capacity shares, while requiring estimations, are better allocators.

#### Data sources

NATCPUS — Natural gasoline total consumption in the United States (through 1983).

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, Petroleum Supply Annual, Table 2.

PLTCPUS — Plant condensate total consumption in the United States (through 1983).

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, *Petroleum Supply Annual*, Table 2.

PPTCPUS — Pentanes plus (natural gasoline) total consumption in the United States.

- 1960 through 1983: Data were reported separately as natural gasoline, isopentane, and plant condensate.
- 1984 through 2009: EIA, Petroleum Supply Annual, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1984 through 2004: Table 2.
  - 2005 through 2009: Table 1.

S

USTCPUS — Unfractionated streams total consumption in the United States (through 1983).

- 1960 through 1978: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1, included in "Plant Condensate."
- 1979 and 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, Petroleum Supply Annual, Table 2, column titled "Products Supplied."

# **Hydrocarbon gas liquids (HGL)**

Before 2010, HGL consumption is defined as the sum of LPG and pentanes plus (natural gasoline). Because pentanes plus is only used in the industrial sector, HGL consumption in the other end-use sectors is equal to LPG consumption:

HLRCPZZ = LGRCPZZ HLCCPZZ = LGCCPZZ HLACPZZ = LGACPZZ HLRCBZZ = LGRCBZZ HLCCBZZ = LGCCBZZ HLACBZZ = LGACBZZ

Before 1984, industrial sector HGL consumption is equal to:

HLICPZZ = LGICPZZ + NATCPZZ + PLTCPZZ + USTCPZZ HLICBZZ = LGICBZZ + NATCBZZ + PLTCBZZ + USTCBZZ

For 1984 through 2009, industrial sector HGL consumption is equal to:

HLICPZZ = LGICPZZ + PPICPZZ HLICBZZ = LGICBZZ + PPICBZZ

Total HGL consumption is the sum of the end-use sector consumption estimates:

HLTCPZZ = HLACPZZ + HLCCPZZ + HLICPZZ + HLRCPZZ HLTCBZZ = HLACBZZ + HLCCBZZ + HLICBZZ + HLRCBZZ

Total U.S. HGL consumption in physical unit is the sum of the product supplied of LPG and pentanes plus:

Before 1984:

HLTCPUS = LGTCPUS + NATCPUS + PLTCPUS + USTCPUS

For 1984 through 2009:

HLTCPUS = LGTCPUS + PPTCPUS

The U.S. totals for all other HL consumption series are calculated as the sum of the state values.

# **Hydrocarbon gas liquids (2010 Forward)**

Hydrocarbon gas liquids (HGL) cover natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) and refinery olefins (ethylene, propylene, butylene, and isobutylene). Refinery olefins are olefins produced at refineries and do not include olefins produced by the manufacturing industries. The State Energy Data System (SEDS) estimates HGL consumption for the residential, commercial, industrial, and transportation sectors. SEDS assumes the small amount of propane used by the electric power sector is already included in waste oil (propane liquid), which is not primary energy and therefore not included in SEDS consumption estimates, and in supplemental gaseous fuels (propaneair), which is accounted for in SEDS natural gas consumption estimates, and not estimated separately for HGL.

For 2010 forward, the U.S. Energy Information Administration (EIA) publishes U.S. products supplied data for total HGL and the nine HGL products in the *Petroleum Supply Annual* (PSA), which are used to define U.S. consumption in SEDS:

HLTCPUS	=	hydrocarbon	gas	liquids	total	consumption	in	the
		United States	in t	housan	d harr	els:		

BQTCPUS = normal butane total consumption in the United States, in thousand barrels:

BYTCPUS = butylene from refineries total consumption in the United States, in thousand barrels;

EQTCPUS = ethane total consumption in the United States, in thousand barrels;

EYTCPUS = ethylene from refineries total consumption in the United States, in thousand barrels;

IQTCPUS = isobutane total consumption in the United States, in thousand barrels;

IYTCPUS = isobutylene from refineries total consumption in the United States, in thousand barrels;

PPTCPUS = natural gasoline (pentanes plus) total consumption in the United States, in thousand barrels;

PQTCPUS = propane total consumption in the United States, in thousand barrels: and

PYTCPUS = propylene from refineries total consumption in the United States, in thousand barrels.

Natural gasoline (pentanes plus), which was included in "other petroleum products" through 2015 SEDS reports, is included here in HGL.

SEDS estimates state-level HGL consumption using a combination of

EIA estimates, American Petroleum Institute's (API) Sales of Natural Gas Liquids and Liquefied Refinery Gases (for 2010 through 2016), Propane Education & Research Council's (PERC) Retail Propane Sales Report (for 2017 forward), and Oil and Gas Journal (OGJ) ethylene steam cracker capacity data (for 2010 through 2014).

## **Residential sector**

### Physical units

SEDS assumes all residential sector HGL consumption to be equal to residential propane consumption.

PQRCPZZ = propane consumed by the residential sector, in thousand barrels.

For 2010 through 2016, SEDS estimates state-level residential sector propane consumption using API's *Sales of Natural Gas Liquids and Liquefied Refinery Gases*, sales of odorized propane for the residential sector and sales for retailers. For 2017 forward, SEDS estimates state-level residential sector propane consumption using PERC's *Retail Propane Sales Report*, sales of odorized propane for the residential sector and for cylinder markets. The sources report sales data in gallons and SEDS converts the data to barrels (42 gallons per barrel) for total SEDS residential sector propane consumption estimates.

Residential sector HGL consumption in each state, HLRCPZZ, equals residential propane consumption:

HLRCPZZ = PQRCPZZ

The U.S. totals for the state data series are the sum of the state values.

# **Commercial sector**

## Physical units

SEDS assumes all commercial sector HGL consumption to be equal to commercial propane consumption.

PQCCPZZ = propane consumed by the commercial sector, in thousand barrels.

SEDS estimates state-level commercial sector propane consumption using sales of odorized propane for the commercial sector reported in the API report (2010- 2016) or the PERC report (2017 forward). The sources

report sales data in gallons and SEDS converts the data to barrels (42 gallons per barrel) for total SEDS commercial sector consumption estimates.

Commercial sector HGL consumption in each state, HLCCPZZ, equals commercial propane consumption:

HLCCPZZ = PQCCPZZ

The U.S. totals for the state data series are the sum of the state values.

## **Industrial sector**

For 2010 forward, SEDS estimates state-level industrial sector consumption for nine HGL components: normal butane, butylene, ethane, ethylene, isobutane, isobutylene, natural gasoline (pentanes plus), propane, and propylene.

## Propane physical units

For 2010 forward, SEDS uses a new method to estimate the consumption of propane in the United States by the industrial sector and allocation to the states.

PQICPZZ = propane consumed by the industrial sector, in thousand barrels.

Propane consumed by the industrial sector is defined by two categories: industrial odorized propane and industrial propane for chemical use. To calculate industrial odorized propane consumption, SEDS subtracts the sum of residential, commercial, and transportation sectors' odorized propane consumption for each state from the state's total odorized propane sales, available in the API report (2010-2016) or the PERC report (2017 forward). To calculate industrial propane consumption for chemical use for the United States, SEDS subtracts U.S. total odorized propane sales from EIA's Petroleum Supply Annual (PSA) U.S. total propane consumption (PQTCPUS). SEDS uses propane chemical feedstock capacity of ethylene steam crackers from OGJ (2010-2014) or estimated by EIA (2015 forward) to allocate consumption to states. SEDS estimates total industrial propane consumption as the sum of industrial odorized propane consumption and industrial propane consumption for chemical use. The sources report the data in gallons and SEDS converts the data to barrels (42 gallons per barrel) for total SEDS industrial sector consumption estimates.

## Other HGL physical units

SEDS assumes all other HGL products (normal butane, butylene, ethane, ethylene, isobutane, isobutylene, natural gasoline, and propylene) are consumed only by the industrial sector.

BQTCPZZ = normal butane total consumption, in thousand barrels:

BYTCPZZ = butylene from refineries total consumption, in thousand barrels:

EQTCPZZ = ethane total consumption, in thousand barrels;

EYTCPZZ = ethylene from refineries total consumption, in thousand barrels;

IQTCPZZ = isobutane total consumption, in thousand barrels;

IYTCPZZ = isobutylene from refineries total consumption, in

thousand barrels;

PPTCPZZ = natural gasoline (pentanes plus) total consumption, in thousand barrels: and

PYTCPZZ = propylene from refineries total consumption, in thousand barrels.

SEDS calculates state-level estimates for other HGL products by applying state shares estimated by EIA to the U.S. product supplied for each HGL type.

For normal butane, SEDS estimates consumption for Louisiana using capacities from *Oil and Gas Journal* (OGJ) ethylene crackers feed slates for n-butane. The remainder is assigned to Texas.

For butylene, SEDS estimates state allocations using SEDS naphtha feedstock capacity shares, based on OGJ data, scaled to total U.S. butylene product supplied from PSA. SEDS assumes all consumption is in Louisiana and Texas.

For ethane, SEDS estimates consumption for Illinois, Iowa, Kentucky, Louisiana, and Pennsylvania using ethane feedstock plant nameplate capacities for plants in those states, compiled by EIA based on OGJ (2010-2014) and plant-level information. The remainder is assigned to Texas.

For ethylene, SEDS estimates state consumption using total U.S. ethylene product supplied from PSA and allocated proportionally to states based on SEDS ethane consumption estimates.

For isobutane, SEDS assumes all U.S. consumption is in Texas.

For isobutylene, SEDS estimates state allocations using SEDS naphtha feedstock capacity shares, based on OGJ data, scaled to total U.S.

isobutylene product supplied from PSA. SEDS assumes all consumption is in Louisiana and Texas.

For natural gasoline, SEDS estimates state allocations using SEDS naphtha feedstock capacity shares, based on OGJ data, scaled to total U.S. natural gasoline product supplied from PSA. SEDS assumes all consumption is in Louisiana and Texas. For 2021 forward, EIA assumes natural gasoline product supplied is equal to zero, because of the addition of the "Transfers to Crude Oil Supply" column to EIA's petroleum and other liquids "Supply and Disposition" table.

For propylene, SEDS estimates state allocations using EIA estimated plant production capacities of products using propylene as feedstock, scaled to total U.S. propylene product supplied from PSA. SEDS assumes all consumption is in California, Illinois, Kentucky, Louisiana, Michigan (through 2014), New Jersey, Ohio, Pennsylvania, Texas, and West Virginia.

Industrial sector consumption by state for each of the other HGL products is equal to its total consumption. For example:

BQICPZZ = BQTCPZZ

Total industrial HGL consumption for each state is equal to:

HLICPZZ = BQICPZZ + BYICPZZ + EQICPZZ + EYICPZZ + IQICPZZ + IYICPZZ + PPICPZZ + PQICPZZ +

PYICPZZ

The U.S. totals for the state data series are the sum of the state values.

# **Transportation sector**

## Physical units

SEDS assumes all transportation sector HGL consumption to be equal to transportation propane consumption.

For 2010 forward, SEDS uses a new method to estimate the consumption of propane in the United States by the transportation sector and allocation to the states:

PQACPZZ = propane consumed by the transportation sector, in thousand barrels.

Total U.S. consumption of propane by the transportation sector, in British thermal units (Btu), comes from the U.S. Energy Information

Administration's (EIA) *Annual Energy Outlook* (AEO), supplemental table titled "Transportation Sector Energy Use by Fuel Type within Mode." SEDS converts the Btu consumption values to barrels using the propane Btu conversion factor (3.841 million Btu per barrel).

For 2010 through 2016, SEDS assumes that fleet vehicles, including all medium-duty and heavy-duty vehicles and some light-duty vehicles, consume 65% of propane. SEDS assumes other light-duty vehicles consume the remaining 35%.

To allocate medium-duty and heavy-duty vehicles to the states, SEDS uses propane consumption data from Form EIA-886 "Annual Survey of Alternative Fueled Vehicles" to calculate state shares. For light-duty vehicles, SEDS uses the U.S. Department of Transportation, Federal Highway Administration publication, Highway Statistics, Table VM-2, "Vehicle-miles of travel, by functional system" to calculate state shares. Lastly, SEDS sums the state allocations for the two categories to calculate the final state consumption.

For 2017 forward, SEDS uses unpublished propane autogas sales data from PERC to allocate the U.S. consumption of propane by the transportation sector to the states.

Transportation sector HGL consumption in each state, HLACPZZ, equals transportation propane consumption:

HLACPZZ = PQACPZZ

The U.S. totals for the state data series are the sum of the state values.

## **Total**

## Physical units

Total HGL consumption is the sum of the end-use sector consumption estimates:

HLTCPZZ = HLACPZZ + HLCCPZZ + HLICPZZ + HLRCPZZ

Total propane consumption is also calculated:

PQTCPZZ = PQACPZZ + PQCCPZZ + PQICPZZ + PQRCPZZ

## All sectors

### British thermal units (Btu)

SEDS calculates Btu estimates for each of the nine HGL products as the product of the estimated consumption of each product in physical units by its respective Btu conversion factor. The calculations performed to estimate residential, commercial, industrial, and total propane Btu consumption, and industrial and total other HGL Btu consumption by state and for the United States are:

```
BQICBZZ = BQICPZZ * 4.353
BQICBUS = \SigmaBQICBZZ
BQTCBZZ = BQTCPZZ * 4.353
BQTCBUS = \Sigma BQTCBZZ
BYICBZZ = BYICPZZ * 4.377
BYICBUS = \SigmaBYICBZZ
BYTCBZZ = BYTCPZZ * 4.377
BYTCBUS = \SigmaBYTCBZZ
EQICBZZ = EQICPZZ * 2.783
EQICBUS = \SigmaEQICBZZ
EQTCBZZ = EQTCPZZ * 2.783
EQTCBUS = \SigmaEQTCBZZ
EYICBZZ = EYICPZZ * 2.436
EYICBUS = \SigmaEYICBZZ
EYTCBZZ = EYTCPZZ * 2.436
EYTCBUS = \SigmaEYTCBZZ
IQICBZZ
         = IQICPZZ * 4.183
IQICBUS
         = ΣIQICBZZ
IQTCBZZ
         = IQTCPZZ * 4.183
IQTCBUS
        = ΣIQTCBZZ
IYICBZZ
          = IYICPZZ * 4.355
IYICBUS
          = ΣIYICBZZ
         = IYTCPZZ * 4.355
IYTCBZZ
IYTCBUS
         = ΣIYTCBZZ
PPICBZZ
         = PPICPZZ * 4.638
PPICBUS
         = ΣPPICBZZ
PPTCBZZ = PPTCPZZ * 4.638
PPTCBUS = \SigmaPPTCBZZ
PQACBZZ = PQACPZZ * 3.841
PQACBUS = \Sigma PQACBZZ
PQCCBZZ = PQCCPZZ * 3.841
PQCCBUS = \Sigma PQCCBZZ
PQICBZZ = PQICPZZ * 3.841
PQICBUS = \SigmaPQICBZZ
PQRCBZZ = PQRCPZZ * 3.841
PQRCBUS = \Sigma PQRCBZZ
```

```
PYICBZZ
          = PYICPZZ * 3.835
PYICBUS
         = ΣPYICBZZ
PYTCBZZ = PYTCPZZ * 3.835
PYTCBUS = \SigmaPYTCBZZ
```

Estimated consumption of HGL in Btu is the sum of the Btu consumption of each product by the corresponding sector. The state and U.S. totals are calculated:

```
HLACBZZ = PQACBZZ
HLACBUS = \Sigma HLACBZZ
HLCCBZZ = PQCCBZZ
HLCCBUS = \SigmaHLCCBZZ
HLICBZZ
        = BQICBZZ + BYICBZZ + EQICBZZ + EYICBZZ +
             IQICBZZ + IYICBZZ + PPICBZZ + PQICBZZ +
             PYICBZZ
HLICBUS = \SigmaHLICBZZ
HLRCBZZ = PQRCBZZ
HLRCBUS = \Sigma HLRCBZZ
```

Total HGL and propane consumption in Btu are the sum of the sectors:

```
PQTCBZZ = PQACBZZ + PQCCBZZ + PQICBZZ + PQRCBZZ
PQTCBUS = \Sigma PQTCBZZ
HLTCBZZ = HLACBZZ + HLCCBZZ + HLICBZZ + HLRCBZZ
HLTCBUS = \Sigma HLTCBZZ
```

#### Additional calculations

SEDS combines the consumption of HGL products other than propane for the SEDS price and expenditure calculations. They include normal butane, butylene, ethane, ethylene, isobutane, isobutylene, natural gasoline, and propylene. The variables are calculated in Btu, for each state and the United States:

```
OHICBZZ = BQICBZZ + BYICBZZ + EQICBZZ + EYICBZZ +
             IQICBZZ + IYICBZZ + PPICBZZ + PYICBZZ
OHICBUS = \SigmaOHICBZZ
```

SEDS calculates the average Btu conversion factor for industrial sector HGL consumption as:

```
HLICKZZ
         = HLICBZZ / HLICPZZ
HLICKUS
        = HLICBUS / HLICPUS
```

HLTCKZZ = HLTCBZZ/HLTCPZZ HLTCKUS = HLTCBUS/HLTCPUS

#### Data sources

BQTCPUS—Normal butane total consumption in the United States. BQTCPZZ — Normal butane total consumption by state.

2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1 and ethylene crackers feed slates for n-butane from the Oil and Gas Journal. For 2015, information on n-butane feed slate capacity of ethylene steam crackers are no longer available from OGJ. The 2014 volumes are used for 2015 forward.

BYTCPUS — Butylene from refineries total consumption in the United States.

BYTCPZZ — Butylene from refineries total consumption by state.

- 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1 and state's share of U.S. capacity of steam crackers using naphtha as feedstocks (FNCAS):
  - 2010 through 2014: Oil and Gas Journal, specific issues focusing on ethylene production, table on "International Survey of Ethylene from Steam Crackers."
  - 2015 forward: EIA estimation, based on data available from the Oil and Gas Journal.

EQTCPUS — Ethane total consumption in the United States. EQTCPZZ — Ethane total consumption by state.

 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1, and data on ethane feedstock capacity of ethylene steam crackers estimated by EIA. EYTCPUS — Ethylene from refineries total consumption in the United States.

EYTCPZZ — Ethylene from refineries total consumption by state.

 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1, and data on ethane feedstock capacity of ethylene steam crackers estimated by EIA.

HLTCPUS — Hydrocarbon gas liquids total consumption in the United States.

 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1.

IQTCPUS — Isobutane total consumption in the United States. IQTCPZZ — Isobutane total consumption by state.

 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1.

IYTCPUS — Isobutylene from refineries total consumption in the United States.

IYTCPZZ — Isobutylene from refineries total consumption by state.

- 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1 and state's share of U.S. capacity of steam crackers using naphtha as feedstocks (FNCAS):
  - 2010 through 2014: Oil and Gas Journal, specific issues focusing on ethylene production, table on "International Survey of Ethylene from Steam Crackers."
  - 2015 forward: EIA estimation, based on data available from the Oil and Gas Journal.

PPTCPUS — Natural gasoline (pentanes plus) total consumption in the United States.

PPTCPZZ — Natural gasoline (pentanes plus) total consumption by state.

- 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1 and state's share of U.S. capacity of steam crackers using naphtha as feedstocks (FNCAS):
  - 2010 through 2014: Oil and Gas Journal, specific issues focusing on ethylene production, table on "International Survey of Ethylene from Steam Crackers."
  - 2015 forward: EIA estimation, based on data available from the Oil and Gas Journal.

PQACPUS — Propane consumed by the transportation sector, United States.

 2010 forward: EIA, Annual Energy Outlook, http://www.eia. gov/outlooks/aeo/tables\_ref.php, supplemental table titled "Transportation Sector Energy Use by Fuel Type Within a Mode" and historical estimates.

PQACPZZ — Propane consumed by the transportation sector by state.

- 2010 through 2016: State allocators estimated using Form EIA-886, http://www.eia.gov/renewable/afv/users.php?fs=a&ufueltype=LPG, Annual "Survey of Alternative Fueled Vehicles," and Federal Highway Administration, Highway Statistics, http://www.fhwa.dot.gov/policyinformation/statistics.cfm, Table VM-2.
- 2017 forward: State allocators estimated using the Propane Education & Research Council, *Retail Propane Sales Report*.

PQCCPZZ — Propane consumed by the commercial sector by state.

- 2010 through 2016: Odorized propane sold for the commercial sector by state, published by the American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table C.
- 2017 forward: Odorized propane sold for the commercial sector by

state, published by the Propane Education & Research Council, *Retail Propane Sales Report*.

PQICPZZ — Propane consumed by the industrial sector by state.

- 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1 and data on propane feedstock capacity of ethylene steam crackers estimated by EIA.
  - 2010 through 2016: Estimated using total odorized propane by state, published by the American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table C.
  - 2017 forward: Estimated using total odorized propane by state, published by the Propane Education & Research Council, Retail Propane Sales Report.

PQRCPZZ — Propane consumed by the residential sector by state.

- 2010 through 2016: Odorized propane sold for the residential sector and sales for retailers by state, published by the American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table C.
- 2017 forward: Odorized propane sold for the residential sector and for cylinder markets by state, published by the Propane Education & Research Council, Retail Propane Sales Report.

PQTCPUS — Propane total consumption in the United States.

 2010 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1.

PYTCPUS — Propylene from refineries total consumption in the United States.

PYTCPZZ — Propylene from refineries total consumption by state.

 2010 forward: Estimated using EIA, Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied," Table 1.

### **Jet fuel**

Jet fuel is used primarily by aircraft for transportation, although small amounts of kerosene-type jet fuel are also used to generate electricity in the electric power sector. There are two types of jet fuel with different heat contents, kerosene-type jet fuel (JK) and naphtha-type jet fuel (JN). The State Energy Data System (SEDS) estimates total jet fuel (JF) as the sum of the two series. Beginning in 2005, the data source includes naphtha-type jet fuel in "Miscellaneous Petroleum Products," and SEDS no longer estimates naphtha-type jet fuel consumption separately.

### Kerosene-type jet fuel

### Physical units

Kerosene-type jet fuel is mainly used as aviation fuel in the transportation sector. Before 1983, SEDS also estimates some kerosene-type jet fuel used in the electric power sector. SEDS uses two different methods to estimate state-level kerosene-type jet fuel because of data availability: one method for 1960 through 2009 and one method for 2010 forward.

### For 1960 through 2009

The data series used to calculate kerosene-type jet fuel consumption estimates are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

JKTCPUS = kerosene-type jet fuel total consumption in the United States, in thousand barrels:

JKEUPZZ = electric utility sector consumption of kerosene-type jet fuel by state, in thousand barrels (through 1982);

and

JKTTPZZ = kerosene-type jet fuel sales by state, in thousand gallons.

Total U.S. consumption of kerosene-type jet fuel, JKTCPUS, is the product supplied data series in the U.S. Energy Information Administration's (EIA) *Petroleum Supply Annual*.

For 1972 through 1982, EIA's Cost and Quality of Fuels for Electric Utility Plants report published kerosene-type jet fuel consumed by electric utilities in the electric power sector, JKEUPZZ. SEDS assumes consumption from 1983 forward to be zero. For 2001 forward, the source includes any jet fuel used for electric power generation in waste/other oil. SEDS does not process data for waste/other oil because waste oil

is not primary energy—consumption of the petroleum products that produced the waste oil has already been accounted for. As such, SEDS data include a small volume of jet fuel used for electric power generation in the SEDS transportation sector consumption.

To allocate U.S. kerosene-type jet fuel consumption (JKTCPUS) to the states, SEDS uses a data series that approximates jet fuel consumption (JKTTPZZ) as state allocators. For 1960 through 1983, JKTTPZZ represents aviation turbine fuel sales collected by the Ethyl Corporation, Petroleum Chemical Division. For 1984 through 2009, it represents volume of first sales for consumption and, in later years, prime supplier sales collected in EIA surveys.

For 1960 through 1983, SEDS uses the Ethyl Corporation data on sales to commercial users to represent total sales based on the assumption that there is little military use of kerosene-type jet fuel.

For 1984 through 2009, EIA data include commercial and military sales. Data for 1984 through 1993 are from EIA's *Petroleum Marketing Annual* (PMA). Data for 1994 forward are unpublished data, in thousand gallons, and are available in thousand gallons per day in PMA and on the EIA website. Before 1994, SEDS estimates withheld data using averages of published months to fill in withheld months; subtracting published states from published PAD district totals; and assigning values based on previous years' quantities. For 1994 through 2009, SEDS estimates withheld data using historical growth rates or state shares. They include Arizona (2009), Delaware (1995, 1997, and 1998), Hawaii (2002–2004, 2008, and 2009), New Hampshire (2009), Oregon (2002–2004 and 2008), and Vermont (2009). SEDS assumes kerosene-type jet fuel sales in the District of Columbia to be zero (1994–2009).

U.S. totals for the two state data series, JKEUPZZ and JKTTPZZ, are the sum of the state data.

SEDS estimates the transportation sector consumption for the United States (JKACPUS) as the difference between the total kerosene-type jet fuel consumed and the electric utility consumption:

JKACPUS = JKTCPUS - JKEUPUS

SEDS allocates total U.S. jet fuel consumption by the transportation sector to the states using the JKTTPZZ state shares:

JKACPZZ = (JKTTPZZ / JKTTPUS) \* JKACPUS

SEDS estimates total kerosene-type jet fuel by state as:

Table TN4.5. Estimate of U.S. consumption of kerosene and jet fuel for 1960 through 1963 (thousand barrels)

Year	(1) Kerosene demand, including commercial jet fuel	(2) Jet fuel demand, military use only	(3) Sales of kerosene for commercial jet fuel use	(4) Estimated kerosene consumption (1) – (3)	<ul><li>(5)</li><li>Estimated total jet fuel</li><li>consumption</li><li>(2) + (3)</li></ul>
1960	132,499	102,803	33,159	99,340	135,962
1961	144,435	104,436	47,187	97,248	151,623
1962	164,167	112,401	66,134	98,033	178,535
1963	172,212	115,237	75,236	96,976	190,473

JKTCP77 = JKACPZZ + JKEUPZZ

### For 2010 forward

The data series used to calculate kerosene-type jet fuel consumption estimates are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

JKTCPUS = kerosene-type jet fuel total consumption in the

United States, in thousand barrels; and

= kerosene-type jet fuel consumed in the transportation JKACPZZ sector by state, in thousand barrels.

Total U.S. consumption of kerosene-type jet fuel, JKTCPUS, is the product supplied data series in the U.S. Energy Information Administration's (EIA) Petroleum Supply Annual.

For 2010 forward, JKACPZZ is an approximation of state-level jet fuel use for commercial aviation, general aviation, and military and federal government use. For commercial aviation, SEDS uses data from the Airlines for America (A4A) and the U.S. Department of Transportation, Bureau of Transportation Statistics (BTS). For general aviation, SEDS uses data from the Federal Aviation Administration (FAA). For military and federal government use, SEDS uses data from the Defense Logistics Agency (DLA).

For commercial aviation, SEDS takes annual jet fuel volume data for about 100 of the largest U.S. airports collected by A4A. Using BTS's "Air Carrier Statistics (Form 41 Traffic)—All Carriers" database, "T-100 Segment (All Carriers)" table, SEDS calculates the "total ton-miles" (equal to the product of the estimated total weight of the aircraft, passengers, and cargo multiplied by flight distances) for each origin airport. SEDS first uses the total ton-miles (TTM) data to fill in any missing A4A data

assuming the growth rates of the airport-level jet fuel volume and TTM are the same. Then, for each year, SEDS calculates a simple ratio of jet fuel volume and TTM for the airports covered in the A4A dataset and applies it to the TTM of all the other U.S. airports to estimate their jet fuel use for commercial aviation. SEDS aggregates the estimates at the airport level to the state level.

For general aviation, the FAA survey collects data by state where the aircraft was primarily flown during the year. SEDS assumes that jet fuel consumption reported for the District of Columbia are for aircrafts that originated in Maryland and Virginia and allocates it equally between the two states. The FAA state-level data are not available for 2010 and 2011. SEDS applies the 2012 state shares to the U.S. general aviation jet fuel consumption for those two years to derive the state estimates. Each year, the source groups states with fewer than 30 observations under a category called "Other States." For the states included in the "Other States" category, SEDS uses each state's previous year volume share to derive the current year state estimates.

For military and federal government use, DLA collects kerosene-type jet fuel sales data by state. SEDS assumes that any jet fuel consumption reported for the District of Columbia are for aircrafts that originated in Maryland and Virginia and allocates it equally between the two states.

SEDS sums the estimates of commercial, general aviation, and military/ federal jet fuel use and applies the state share to the U.S. total (JKTCPUS) to calculate JKACPZZ. The U.S. total, JKACPUS, is the sum of the state data.

SEDS estimates total kerosene-type jet fuel by state as:

JKTCPZZ = JKACPZZ

### British thermal units (Btu)

EIA assumes kerosene-type jet fuel has a heat content value of about 5.670 million Btu per barrel. SEDS uses this factor to convert kerosene-type jet fuel from physical units to Btu:

JKACBZZ = JKACPZZ \* 5.670

JKACBUS =  $\Sigma$ JKACBZZ

JKEUBZZ = JKEUPZZ \* 5.670

JKEUBUS =  $\Sigma$ JKEUBZZ

JKTCBZZ = JKTCPZZ \* 5.670

JKTCBUS =  $\Sigma$ JKTCBZZ

### Additional notes

- An assumption is made that kerosene-type jet fuel use by the military in 1960 through 1983 is negligible. This assumption is based on product definitions from the American Petroleum Institute's Standard Definitions for Petroleum Statistics, Technical Report No. 1, Third Edition (1981), page 13, which states that kerosene-type jet fuel is used primarily by commercial aircraft engines.
- 2. Ethyl Corporation jet fuel sales to commercial users by state include some sales data that were improperly allocated between the states of Illinois and Indiana for 1960 through 1973. To adjust for this error, the average relative proportions of Illinois and Indiana sales from 1974 through 1978 were applied to the sum of the Illinois and Indiana sales in 1960 through 1973. From 1974 through 1983, sales data were correctly allocated.
- 3. Jet fuel sales in Illinois decreased sharply from 1984 forward, while sales in Indiana increased by about the same amount. It is possible that jet fuel for use at Chicago, Illinois, airports may have been purchased in Indiana. The same anomaly may have happened between New York and New Jersey beginning in 1981, when jet fuel for consumption at New York City airports may have been purchased in New Jersey. This is an inherent problem when using sales data as an indication of consumption, and no attempt has been made to adjust the numbers.
- 4. Before 1964, kerosene-type jet fuel was included in the total kerosene product supplied data in the source, the U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 2, "Salient Statistics of the Major Refined Petroleum Products in the United States." Table TN4.5 summarizes the derivation of kerosene and jet fuel consumption estimates

- (columns 4 and 5) from data published in the source (columns 1, 2,and 3) for 1960 through 1963. For 1964 and years following, kerosene and kerosene-type jet fuel are reported separately in the source documents.
- 5. Kerosene-type jet fuel consumed by electric utilities, JKEUPZZ, is published in the EIA Cost and Quality of Fuels for Electric Utility Plants. These data are available for 1972 through 1982 only. Consumption in all other years is assumed to be zero. State-level data for 1972 through 1974 are not available. The percentage of each state's consumption of the total U.S. consumption in 1975 was used to apportion the 1972 through 1974 national data to the states.

### Data sources

JKACPZZ — Kerosene-type jet fuel consumed by the transportation sector by state.

- 1960 through 2009: Calculated in SEDS.
- 2010 forward: Estimated by EIA based on unpublished airport jet fuel consumption data from Airlines for America (A4A), published "Air Carrier Statistics (Form 41 Traffic) All Carriers", T-100 Segment (All Carriers), data from the U.S. Bureau of Transportation Statistics (BTS), unpublished General Aviation and Part 135 Activity Survey data from the U.S. Federal Aviation Administration (FAA), and unpublished military and federal government sales data from the U.S. Defense Logistics Agency (DLA).

JKEUPZZ — Kerosene-type jet fuel consumed by electric utilities by state (through 1982).

- 1960 through 1971: No data available. Values are assumed to be zero.
- 1972 through 1974: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Fuel Oil and Kerosene," Table 15 footnote for U.S. value. These data were apportioned to the states by using the 1975 state proportions of the 1975 U.S. total from the source below.
- 1975 through 1979: Office of Electric Power Regulation, Federal Energy Regulatory Commission, Annual Summary of Cost and Quality of Electric Utility Plant Fuels, "Fuel Oil Deliveries for Combustion Turbine and Internal Combustion Units."

- 1980 through 1982: EIA, Cost and Quality of Fuel for Electric Utility Plants, Table 30.
- 1983 through 2009: No data available. Values are assumed to be zero.

JKTTPZZ — Kerosene-type jet fuel sales by state (through 2009).

- 1960 through 1983: Ethyl Corporation, Petroleum Chemicals Division, Yearly Report of Gasoline Sales by States, "Aviation Turbine Fuel Sales."
- 1984 and 1985: EIA, Petroleum Marketing Annual 1985, Volume2.
  - 1984: Table A6.
  - 1985: Table 34.
- 1986 through 1988: EIA, Petroleum Marketing Annual, Table 46.
- 1989 through 1993: EIA, Petroleum Marketing Annual, Table 48.
- 1994 through 2009: Unpublished data in thousand gallons from Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption." Data published in thousand gallons per day in EIA, *Petroleum Marketing Annual*, http://www.eia.gov/oil\_gas/petroleum/data\_publications/ petroleum\_marketing\_annual/pma\_historical.html and on the Prime Supplier Sales Volumes website at http://www.eia.gov/dnav/ pet/pet cons prim a EPJK P00 Mgalpd a.htm.
  - 1994 through 2006: Table 49.
  - 2007 through 2009: Table 46.

JKTCPUS — Kerosene-type jet fuel total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

### Naphtha-type jet fuel

### Physical units

SEDS uses two data series to estimate naphtha-type jet fuel consumption:

JNTCPUS = naphtha-type jet fuel total consumption, in thousand barrels; and

JNMIPZZ = naphtha-type jet fuel issued to the military in each state, in thousand barrels.

Total U.S. consumption of naphtha-type jet fuel, JNTCPUS, is the product supplied data series in the publication *Petroleum Supply Annual*, published by EIA. Beginning in 2005, it is included in "Miscellaneous Petroleum Products," and is assigned a zero value in SEDS.

SEDS assumes that military aircraft consumes all naphtha-type jet fuel. (See the Additional Notes at the end of this section.) The U.S. Department of Defense, Defense Logistics Agency, Defense Supply Center provides naphtha-type jet fuel issued to the military in each state, JNMIPZZ.

The total U.S. military issues is the sum of the state data:

JNMIPUS =  $\Sigma$ JNMIPZZ

SEDS estimates naphtha-type jet fuel consumption by state, JNTCPZZ, assuming that each state consumes naphtha-type jet fuel in proportion to the amount issued to the military in that state:

JNTCPZZ = (JNMIPZZ / JNMIPUS) \* JNTCPUS

SEDS assumes all naphtha-type jet fuel is for transportation purposes:

JNACPZZ = JNTCPZZ JNACPUS = JNTCPUS

### British thermal units (Btu)

EIA assumes naphtha-type jet fuel has a heat content value of 5.355 million Btu per barrel. SEDS uses this factor to convert naphtha-type jet fuel from physical units to Btu:

JNTCBZZ = JNTCPZZ \* 5.355JNTCBUS =  $\Sigma$ JNTCBZZ

Naphtha-type jet fuel consumed in the transportation sector is equal to total consumption.

JNACBZZ = JNTCBZZ JNACBUS = JNTCBUS

### Additional notes

- An assumption is made that the naphtha-type jet fuel is for military use only. This assumption is based on product definitions from the American Petroleum Institute's Standard Definitions for Petroleum Statistics, Technical Report No. 1, Third Edition (1981), page 13, which states that naphtha-type jet fuel is used primarily by military aircraft engines.
- 2. Data on naphtha-type jet fuel issued to the military for each state (JNMIPZZ) are obtained from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. There are no data available for 1960 through 1974, and the data available for 1975 and 1976 are not consistent; therefore, the 1977 values are used for 1960 through 1976 in SEDS. The data are reported by fiscal year for 1977 through 1988 and are taken from the Defense Energy Information System. For 1989 and 1990, fiscal-year data from two databases, Defense Fuel Automated Management System and the Into-Plane Database, are summed. For 1991 and 1992, data from the same two databases, reported by calendar year, are used.
- 3. Because total naphtha-type jet fuel product supplied is assumed to be zero beginning in 2005, naphtha-type jet fuel issued to the military is also assumed to be zero for 2005 forward.

### Data sources

JNMIPZZ — Naphtha-type jet fuel issued to the military in the United States.

- 1960 through 1974: No data are available. The 1977 data are used for each year.
- 1975 and 1976: No consistent data series are available. The 1977 data are used for both years.
- 1977 through 1987: The U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Energy Information System, military retail issues based on fiscal year data. The District of Columbia issues are assumed to be zero; therefore, values reported for the District of Columbia are added to Maryland.
- 1988: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, average of 1987 data (see source

- above) and 1989 data (see source below).
- 1989 and 1990: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Fuel Automated Management System, military wholesale issues based on fiscal year data.
- 1991 through 2004: U.S. Department of Defense, Defense Logistics Agency, Defense Energy Supply Center. State data for the calendar year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Into-plane values reported for the District of Columbia are added to Virginia.
- 2005 forward: Value entered in SEDS as zero.

JNTCPUS — Naphtha-type jet fuel total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Data not reported separately. Volumes are included in "Miscellaneous Products" in the *Petroleum Supply Annual*, Table 1. Value entered in SEDS as zero.

### Jet fuel totals

### Physical units

SEDS calculates total jet fuel consumption estimates by end-use sector in physical units:

JFACPZZ = JKACPZZ + JNACPZZ

JFACPUS =  $\Sigma$ JFACPZZ JFEUPZZ = JKEUPZZ JFEUPUS = JKEUPUS K JFTCPZZ = JFACPZZ + JFEUPZZE JFTCPUS = ΣJFTCPZZ

British thermal units (Btu)

R

O

S

SEDS calculates total jet fuel consumption estimates by end-use sector in Btu:

**E** JFACBZZ = JKACBZZ + JNACBZZ

JFACBUS = ΣJFACBZZ JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS

JFTCBZZ = JFACBZZ + JFEUBZZ

JFTCBUS =  $\Sigma$ JFTCBZZ

### Kerosene

### Physical units

The State Energy Data System (SEDS) estimates state-level kerosene consumption for the residential, commercial, and industrial sectors using four historical data series published by the U.S. Energy Information Administration (EIA) representing sales of kerosene into or within each state. SEDS uses a fifth data series, the U.S. total kerosene consumption, which is the product supplied series from EIA's *Petroleum Supply Annual*. EIA suspended its *Fuel Oil and Kerosene Sales Report* after data year 2020. For 2021 forward, SEDS uses regressions and historical sector and state shares to estimate the *Fuel Oil and Kerosene Sales Report* data. SEDS uses the four sales series as shares to allocate the known U.S. total consumption to the states and sectors. SEDS assigns the following variable names to the five data series ("ZZ" in the variable names represents the two-letter state code that differs for each state):

KSCMPZZ = kerosene sold to the commercial sector, in thousand barrels;

KSIHPZZ = kerosene sold to the industrial sector, in thousand barrels:

KSOTPZZ = kerosene sold for all other uses, including farm use, in thousand barrels:

KSRSPZZ = kerosene sold to the residential sector, in thousand barrels; and

KSTCPUS = kerosene total consumption in the United States, in thousand barrels.

SEDS calculates U.S. sales totals for each of the four state-level series as the sum of the state values. SEDS aligns the variables into the enduse sectors used in SEDS. EIA suspended its *Fuel Oil and Kerosene Sales Report* after data year 2020. For 2021 forward, SEDS calculates the U.S.-level historical average end-use sector shares for 2015—2019 and applies them to the current year U.S. total for all end-use sectors. Then, SEDS uses these U.S. sector totals, regression models, and historical state shares to estimate state-level sales.

The residential and commercial sectors contain only KSRSPZZ and KSCMPZZ, respectively. Before 2021, SEDS assigns the residential and commercial sector sales from the *Fuel Oil and Kerosene Sales Report* and predecessor data sources for those sectors. For 2021 forward, SEDS calculates linear regressions for each sector using historical statelevel sales from the *Fuel Oil and Kerosene Sales Report* and state-level

population-weighted Heating Degree Days (HDD) from the National Oceanic and Atmospheric Administration (NOAA) for 2015—2019. SEDS uses the state-level regression formulas and current-year HDDs to estimate sector sales for each state, except Alaska. For Alaska, SEDS does not use regression analysis with HDDs and instead estimates a small amount of sales equal to the amount of sales shown in the *Fuel Oil and Kerosene Sales Report* for 2017 forward.

The industrial sector sales (DSINPZZ) are the sum of kerosene sold for industrial heating and processing (KSIHPZZ) and kerosene sold for all other uses (KSOTPZZ), including farm use. Before 2021, SEDS assigns the sales from the *Fuel Oil and Kerosene Sales Report* and predecessor data sources. For 2021 forward, SEDS calculates the state-level historical average shares for each component for 2015—2019 and applies them to the current year U.S.-level industrial sector sales total.

KSINPZZ = KSOTPZZ + KSIHPZZ

 $KSINPUS = \Sigma KSINPZZ$ 

Total sales of kerosene in each state is the sum of these three sectors' sales:

KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ

 $KSTTPUS = \Sigma KSTTPZZ$ 

SEDS estimates each state's total consumption of kerosene by allocating the U.S. total consumption to the states in proportion to each state's share of the U.S. total sales:

KSTCPZZ = (KSTTPZZ/KSTTPUS) \* KSTCPUS

SEDS estimates residential sector consumption, KSRCPZZ, by applying each state's residential sector sales percentage of total sales to the state's estimated total consumption:

KSRCPZZ = (KSRSPZZ / KSTTPZZ) \* KSTCPZZ

SEDS estimates the commercial sector's estimated consumption in each state, KSCCPZZ, as:

KSCCPZZ = (KSCMPZZ / KSTTPZZ) \* KSTCPZZ

SEDS estimates the industrial sector's estimated consumption in each state, KSICPZZ, as:

KSICPZZ = (KSINPZZ / KSTTPZZ) \* KSTCPZZ

SEDS calculates U.S. totals for the three sectors' consumption as the sums of the states' estimated consumption.

Data on kerosene consumed by the electric power sector are not separately available before 2003. For 2003 forward, the source includes kerosene used for power generation in its waste/other oil category. SEDS doesn't estimate waste/other oil consumption to avoid double counting. Waste oil is not primary energy and SEDS accounts for waste oil consumption in its other petroleum product consumption estimates. While kerosene consumption by the electric power sector is not separately shown, SEDS does not underestimate total kerosene consumption because the U.S. product supplied data series covers all uses and sales of kerosene to the industrial sector include those for electric power use.

### British thermal units (Btu)

EIA assumes kerosene has a heat content value of about 5.670 million Btu per barrel. SEDS applies this factor to convert estimated kerosene consumption from physical units to Btu:

KSRCBZZ = KSRCPZZ \* 5.670 KSCCBZZ = KSCCPZZ \* 5.670 KSICBZZ = KSICPZZ \* 5.670

SEDS calculates total state kerosene consumption in Btu as the sum of the end-use sectors:

KSTCBZZ = KSRCBZZ + KSCCBZZ + KSICBZZ

SEDS calculates U.S. Btu consumption estimates for the three consuming sectors and the U.S. total as the sum of the state-level data.

### Additional notes

- 1. See Note 4 at the end of the "Kerosene-type jet fuel" section on page 63 for comments concerning the inclusion of kerosene-type jet fuel with the kerosene total product supplied before 1964 in the source documents.
- 2. "Sales" data are actually called "shipments" in the source documents for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1983; and "sales" for 1984 forward.
- In 1979, EIA implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data*

Report "Deliveries of Fuel Oil and Kerosene in 1979.") In this survey form, certain end-use categories were redefined—in many cases, to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in SEDS to conform with the 1979 kerosene deliveries classifications. The pre-1979 deliveries estimates are not published in this report but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into state and major end-use sector consumption estimates.

For kerosene deliveries in 1979, the end-use categories called "residential," "commercial," and "industrial" are available. The pre-1979 deliveries category called "heating" is related to the sum of "residential," "commercial," and "industrial" in 1979. Therefore, the following method was applied to present a comparable series for kerosene delivered to the residential, commercial, and industrial sectors:

- A 1979 subtotal for heating was created by summing each state's residential, commercial, and industrial deliveries categories, thereby creating a comparable deliveries subtotal for all years.
- Residential, commercial, and industrial shares of the heating subtotal in 1979 were calculated for each state.
- These 1979 end-use shares were then applied to each pre-1979 heating subtotal in each state to create state estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 kerosene deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

4. In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." EIA did not conduct a fuel oil and kerosene sales survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years and are described in the July 1985 issue of the EIA, Petroleum Marketing Monthly (PMM). Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the sales data for 1983 forward are reported in thousand gallons. These data were first converted to thousand barrels before being entered into SEDS.)

5. In 1975 through 1977, the industrial sector consumption of kerosene includes small quantities of kerosene-type jet fuel that were produced as jet fuel and sold as kerosene.

### Data sources

KSCMPZZ — Kerosene sold to the commercial sector.

- 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of kerosene from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene, in 1979," Table 3. State ratios based on 1979 commercial sector deliveries were applied to each state's heating deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3.)
- 1979 and 1980: EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene." Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are
  - 1983: July 1985 issue, Table A14.
  - 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://www.eia.gov/dnav/pet/pet\_ cons\_821ker\_a\_EPPK\_VCS\_Mgal\_a.htm.
  - 1985 and 1986: July 1987 issue, Table A6.
  - 1987: June 1988 issue, Table A6.
- 1988 through 2020: EIA, *Fuel Oil and Kerosene Sales*, http://www.eia.gov/dnav/pet/pet\_cons\_821ker\_a\_EPPK\_VCS\_Mgal\_a.htm.
- 2021 forward: Internal SEDS regression formulas using commercial kerosene sales data from EIA's Fuel Oil and Kerosene Sales and population-weighted Heating Degree Days (HDD) from National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center (NCDC) ftp://ftp.ncdc.noaa.gov/pub/ data/cirs/climdiv/ (use Microsoft Edge "Internet Explorer mode").

### KSIHPZZ — Kerosene sold to the industrial sector.

 1960 through 1978: EIA estimates based on statistics of industrial sector deliveries of kerosene from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 3. State ratios based on 1979 industrial sector deliveries were applied to each state's heating deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 67.)

- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are
  - 1983: July 1985 issue, Table A14.
  - 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://www.eia.gov/dnav/pet/pet\_ cons\_821ker\_a\_EPPK\_vin\_Mgal\_a.htm.
  - 1985 and 1986: July 1987 issue, Table A6.
  - 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, http://www.eia. gov/dnav/pet/pet\_cons\_821ker\_a\_EPPK\_vin\_Mgal\_a.htm, select Excel file labeled "Download Series History."

KSOTPZZ — Kerosene sold for all other uses, including farm use.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 10.
  - 1962 and 1963: Table 9.
  - 1964 and 1965: Table 8.
  - 1966 through 1975: Table 5.
- 1976 through 1978: EIA, Energy Data Reports, "Sales of Fuel Oil and Kerosene." Table 5.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene." Calculated as the sum of kerosene delivered for farm and other use from Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

• 1983 through 1987: EIA, Petroleum Marketing Monthly. The

specific tables are

- 1983: July 1985 issue, Table A14.
- 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://www.eia.gov/dnav/pet/pet\_ cons\_821ker\_a\_EPPK\_VOE\_Mgal\_a.htm and http://www.eia.gov/dnav/pet/pet\_cons\_821ker\_a\_EPPK\_VFM\_Mgal\_a.htm.
- 1985 and 1986: July 1987 issue, Table A6.
- 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, http://www.eia.gov/dnav/pet/pet\_cons\_821ker\_a\_EPPK\_VOE\_Mgal\_a.htm and http://www.eia.gov/dnav/pet/pet\_cons\_821ker\_a\_EPPK\_VFM\_Mgal\_a.htm, select Excel file labeled "Download Series History."

KSRSPZZ — Kerosene sold to the residential sector.

- 1960 through 1978: EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene in 1979," Table 3. State ratios based on 1979 residential sector deliveries were applied to each state's heating deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 67.)
- 1979 and 1980: EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, Petroleum Marketing Monthly. The specific tables are
  - 1983: July 1985 issue, Table A14.
  - 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://www.eia.gov/dnav/pet/pet\_ cons\_821ker\_a\_EPPK\_VRS\_Mgal\_a.htm.
  - 1985 and 1986: July 1987 issue, Table A6.
- 1988 through 2020: EIA, Fuel Oil and Kerosene Sales, http://www.eia.gov/dnav/pet/pet\_cons\_821ker\_a\_EPPK\_VRS\_Mgal\_a.htm.
- 2021 forward: Internal SEDS regression formulas using residential kerosene sales data from EIA's Fuel Oil and Kerosene Sales and population-weighted Heating Degree Days (HDD) from National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center (NCDC) ftp://ftp.ncdc.noaa.gov/pub/data/

cirs/climdiv/ (use Microsoft Edge "Internet Explorer mode").

KSTCPUS — Kerosene total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

### Lubricants

### Physical units

The State Energy Data System (SEDS) estimates lubricant consumption for the industrial and transportation sectors. For 1960 through 2009, SEDS estimates state lubricants consumption using data from the U.S. Census Bureau. For 2010 forward, SEDS estimates state lubricants consumption using data from Kline & Company, Inc, the U.S. Department of Commerce, Bureau of Economic Analysis (BEA), and other SEDS consumption variables.

For 1960 through 2009, SEDS uses three data series to estimate state consumption of lubricants. SEDS uses two state-level sales data series to allocate the U.S. total consumption data to the states and the end-use sectors. ("ZZ" in the variable names represents the two letter state code that differs for each state):

LUINPZZ = lubricants sold to the industrial sector, in thousand barrels:

LUTRPZZ = lubricants sold to the transportation sector, in thousand barrels; and

LUTCPUS = lubricants total consumption in the United States, in thousand barrels.

SEDS uses data from the U.S. Census Bureau's *Current Industrial Reports*: "Sales of Lubricating and Industrial Oils and Greases" to estimate the first two variables. The report was discontinued after 1977. See the additional notes at the end of this section for a description of the estimation. The third variable for lubricants is the product supplied data series in the U.S. Energy Information Administration's (EIA) *Petroleum Supply Annual*. SEDS uses the first two variables to allocate the third into state total consumption and state end-use sector consumption estimates.

SEDS calculates total sales of lubricants for each state, LUTTPZZ, as the sum of the industrial and transportation sales:

LUTTPZZ = LUINPZZ + LUTRPZZ

U.S. total sales is the sum of the state sales.

SEDS uses each state's proportion of total U.S. sales to calculate each state's estimated consumption of lubricants:

LUTCPZZ = (LUTTPZZ / LUTTPUS) \* LUTCPUS

SEDS estimates each state's lubricants consumption by end-use sector in proportion to that state's sales by sector as a portion of total sales in the state. SEDS calculates state lubricants consumption for industrial use, LUICPZZ, and for transportation use, LUACPZZ, as:

LUICPZZ = (LUINPZZ / LUTTPZZ) \* LUTCPZZ LUACPZZ = (LUTRPZZ / LUTTPZZ) \* LUTCPZZ

SEDS sums the state consumption estimates for these two end-use sectors to calculate the consumption of lubricants in the United States.

For 2010 forward, SEDS uses a new method to estimate the consumption of lubricants in the United States for the industrial and transportation sectors and allocation to the states.

LUACPZZ = lubricants consumed by the transportation sector, in thousand barrels:

LUACPUS = lubricants consumed by the transportation sector, United States, in thousand barrels;

LUICPZZ = lubricants consumed by the industrial sector, in thousand barrels;

LUICPUS = lubricants consumed by the industrial sector, United States, in thousand barrels; and

LUTCPUS = lubricants total consumption in the United States, in thousand barrels.

SEDS uses finished lubricant demand data from Kline & Company, Inc. to compile shares for the industrial and transportation sectors for the United States. SEDS uses three market segments (industrial, consumer total, and commercial total) and two product types covered in the industrial market segment (marine and railroad) to compile the shares.

SEDS subtracts the Kline marine and railroad amounts from the Kline industrial category and applies the Kline industrial (less marine and railroad) share to U.S. total lubricant consumption (LUTCPUS) to calculate U.S. lubricant consumption for the industrial sector, LUICPUS. SEDS sums the four other Kline categories (consumer total, commercial total, marine and railroad) and applies that share to U.S. total lubricant consumption (LUTCPUS) to calculate U.S. lubricant consumption for the transportation sector, LUACPUS.

SEDS estimates state allocators for the consumption of lubricants by the industrial sector using "the Use Table" of the latest benchmark inputoutput (I-O) accounts and real state gross domestic product (GDP) by industry, both published by the U.S. Department of Commerce, Bureau of Economic Analysis (BEA). One of the commodities in the I-O accounts

Table TN4.6. Lubricants sales data used in consumption estimates, 1960 through 2009

Year of sales data	Year of consumption estimates
1960	1960 and 1961
1962	1962 through 1964
1965	1965 and 1966
1967	1967 and 1968
1969	1969 and 1970
1971	1971 and 1972
1973	1973 and 1974
1975	1975 and 1976
1977	1977 through 2009

is "other petroleum and coal products manufacturing" (North American Industry Classification System, NAICS, code 324190), which is mostly lubricants. First, SEDS compiles lubricant input per dollar output for 25 industries in the agriculture, mining, construction, and manufacturing sectors using the benchmark I-O accounts use table. Then, SEDS multiplies the industrial inputs by the real state GDP for the 25 industries. Lastly, SEDS sums the products to the state level to calculate state shares for lubricant consumption by the industrial sector.

SEDS calculates state-level consumption of lubricants by the industrial sector, LUICPZZ, by applying the state allocators to the U.S. consumption.

SEDS estimates state allocators for the consumption of lubricants for each of the four categories in the transportation sector using the following data series:

- Motor gasoline consumption by the transportation sector (MGTRP) to allocate U.S. consumer total demand to the states
- Distillate fuel oil sales as diesel fuel for on-highway use (DFONP) to allocate U.S. commercial total demand to the states
- Distillate and residual fuel oil sales for vessel bunkering use (DFBKP and RFBKP) to allocate U.S. marine demand to the states
- Distillate fuel oil sales for railroad use (DFRRP) to allocate U.S. railroad demand to the states

SEDS sums the four data series to calculate state-level consumption of lubricants by the transportation sector, LUACPZZ.

### British thermal units (Btu)

EIA assumes lubricants have a heat content value of about 6.065 million

Btu per barrel. SEDS applies this factor to convert estimated lubricants consumption from physical units to Btu:

LUICBZZ = LUICPZZ \* 6.065 LUACBZZ = LUACPZZ \* 6.065

The state total consumption in Btu is the sum of the two sectors' consumption in Btu:

LUTCBZZ = LUICBZZ + LUACBZZ

SEDS calculates the U.S. sector and total consumption estimates in Btu as the sum of the state data.

### Additional notes

- 1. The lubricants sales data (LUINPZZ and LUTRPZZ) were published about every other year by the U.S. Census Bureau until the discontinuation of the series after 1977. Each year's sales data have been used to calculate that year's and at least one other year's consumption estimates. Table TN4.6 specifies which years of consumption estimates depend on which years of the sales data.
- 2. The sales data from the source document for LUINPZZ and LUTRPZZ are available in incompatible units. The industrial series, LUINPZZ, is oils and greases sold for industrial lubricating and other uses measured in thousand gallons. The transportation series, LUTRPZZ, is oils and greases sold for automotive and aviation uses measured in thousand pounds. Before use in SEDS, these were converted to thousand barrels by dividing the oil data by 42 gallons per barrel and dividing the greases data by 300 pounds per barrel. In the source document, some state data are not published to avoid disclosing figures for individual companies. The undisclosed data were entered as zero in SEDS.

### Data sources

 $\label{local_LUACPZZ} - \text{Lubricants consumed by the transportation sector by state}.$ 

 2010 forward: Estimated by EIA using state allocators derived from selected SEDS consumption series.

LUACPUS — Lubricants consumed by the transportation sector, United States.

 2010 forward: Estimated by EIA based on Kline & Company data on finished lubricant demand for consumer total, commercial total, marine, and railroad use.

LUICPZZ — Lubricants consumed by the industrial sector by state.

- 2010 through 2016: Estimated by EIA using state allocators derived from U.S. Department of Commerce, Bureau of Economic Analysis (BEA), 2012 benchmark input-output accounts http://apps.bea.gov/histdata/histChildLevels.cfm?HMI=8&\_gl=1\*15tvbe1\*\_ga\*MjE2Mjc5NTc0LjE3MDk5MTQzMTc.\*\_ga\_J4698JNNFT\*MTcxMDg2MzU2Ny4xMi4xLjE3MTA4NjM4MjluMjkuMC4w and real State Gross Domestic Products by Industry in chained (2012) dollars http://apps.bea.gov/regional/histdata/?\_gl=1\*kqxcr2\*\_ga\*MjE2Mjc5NTc0LjE3MDk5MTQzMTc.\*\_ga\_J4698JNNFT\*MTcxMDg2MzU2Ny4xMi4xLjE3MTA4NjM2NzEuMjguMC4w.
- 2017 forward: Estimated by EIA using state allocators derived from U.S. Department of Commerce, Bureau of Economic Analysis (BEA), 2017 benchmark input-output accounts <a href="http://www.bea.gov/industry/input-output-accounts-data">http://www.bea.gov/industry/input-output-accounts-data</a> and real State Gross Domestic Products by Industry in chained (2017) dollars <a href="http://www.bea.gov/data/gdp/gdp-state">http://www.bea.gov/data/gdp/gdp-state</a>.

LUICPUS — Lubricants consumed by the industrial sector, United States.

 2010 forward: Estimated by EIA based on Kline & Company data on finished lubricant demand for industrial (less marine and railroad) use.

LUINPZZ — Lubricants sold to the industrial sector by state (1960 through 2009). Calculated from:

• U.S. Department of Commerce, Census Bureau, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases," for 1960, 1962, 1965, 1967, 1969, 1971, 1973, 1975, and 1977. (See explanation in Notes 1 and 2, on page 72.)

LUTCPUS — Lubricants total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum

- Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

LUTRPZZ — Lubricants sold to the transportation sector by state (1960 through 2009). Calculated from:

• U.S. Department of Commerce, Census Bureau, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases," for 1960, 1962, 1965, 1967, 1969, 1971, 1973, 1975, and 1977. (See explanation in Notes 1 and 2, on page 72.)

### **Motor gasoline**

### Physical units

The State Energy Data System (SEDS) uses twelve data series to estimate state end-use consumption of motor gasoline. Eleven of the series are from the U.S. Department of Transportation, Federal Highway Administration publication, *Highway Statistics*, and represent sales of motor gasoline. For data year 2022, SEDS uses preliminary data from the Federal Highway Administration. The sales data are categorized as sales for highway and non-highway use:

- Highway use sales data (MGMFP) are from the Highway Statistics Table 8.4.2 (previously Table MF-21); however, they are reduced by the amount of highway "special fuels" (MGSFP) used in each state each year as reported on Table 8.4.2. Special fuels are primarily diesel fuels, not motor gasoline, and SEDS includes them in the transportation sector of distillate fuel oil and other energy sources.
- Non-highway use sales are further subdivided into sales for: (1) state, county, and municipal non-highway use of motor fuel (MGPNP) from Table 8.4.2, and (2) private and commercial use. Through 2007, the source used state-reported data for tax refunded volumes by category. For 2008 forward, the source models the data to better account for differences in state reporting. In 2015, there is a break in series from the source because of a new model and includes new categories for boating, lawn and garden, and recreational vehicle use. In 2022, there is a break in series because of the addition of a new model and includes a new category, logging and railroad use. See the "Additional note" at the end of this section for more details. Data for the components of private and commercial non-highway use are reported in Table 8.4.3 (previously Table MF-24):
  - agricultural use (MGAGP)
  - industrial and commercial use (MGIYP)
  - construction use (MGCUP)
  - marine use (MGMRP), through 2014
  - boating use (MGBTP), 2015 forward
  - lawn and garden use (MGLGP), 2015 forward
  - recreational vehicle use (MGRVP), 2015 forward
  - miscellaneous use, including logging and railroad use (MGMSP)

The 12th motor gasoline data series (MGTCPUS) is total U.S. consumption of motor gasoline, which is the product supplied series in EIA's *Petroleum Supply Annual*. MGTCPUS includes fuel ethanol blended into motor gasoline. Before 1993, EIA underreported motor gasoline product supplied because it did not include all of the fuel ethanol blended with motor gasoline. The source also misreported volumes of motor gasoline blending components that were blended into finished motor gasoline. To adjust for the underreported data, SEDS added fuel ethanol consumption estimates to total energy consumption for years before 1993 (see Section 7, "Total Energy").

The 12 motor gasoline data series are ("ZZ" in the variable names represent the two-letter state code that differs for each state):

MGAGPZZ = motor gasoline sold for agricultural use in each state, in thousand gallons;

MGBTPZZ = motor gasoline sold for boating use in each state, in thousand gallons (2015 forward);

MGCUPZZ = motor gasoline sold for construction use in each state, in thousand gallons;

MGIYPZZ = motor gasoline sold for industrial and commercial use in each state, in thousand gallons:

MGLGPZZ = motor gasoline sold for lawn and garden use in each state, in thousand gallons (2015 forward):

MGMFPZZ = motor fuel sold for highway use in each state, in thousand gallons;

MGMRPZZ = motor gasoline sold for marine use in each state, in thousand gallons (through 2014);

MGMSPZZ = motor gasoline sold for miscellaneous and unclassified uses in each state, in thousand gallons;

MGPNPZZ = motor fuel sold for public non-highway use in each state, in thousand gallons:

MGRVPZZ = motor gasoline sold for recreational vehicle use in each state, in thousand gallons (2015 forward):

MGSFPZZ = special fuels (primarily diesel fuel with small amounts of liquefied petroleum gases) sold in each state, in thousand gallons: and

MGTCPUS = motor gasoline total consumption in the United States, in thousand barrels.

U.S. totals for the 11 state-level series named above are calculated as the sum of the state data.

The transportation sector accounts for most of the motor gasoline sales.

Before 2015, sales to the transportation sector is estimated to be the sum of motor fuel sales for marine use and for highway use (minus the sales of special fuels, which are primarily diesel fuels and are accounted for in the transportation sector of distillate fuel oil). Sales of motor gasoline to the transportation sector in each state (MGTRPZZ) is calculated:

MGTRPZZ = MGMFPZZ + MGMRPZZ - MGSFPZZ

Beginning in 2015, marine use is no longer available to calculate MGTRPZZ and two new sales categories, boating use (MGBTP) and recreational vehicle use (MGRVP), are now included in the definition of transportation sector sales:

MGTRPZZ = MGMFPZZ + MGBTPZZ + MGRVPZZ - MGSFPZZ

Before 2015, commercial sector sales are the sum of two data series: miscellaneous (including unclassified and logging and railroad) and public non-highway sales. SEDS calculates sales of motor gasoline to the commercial sector in each state (MGCMPZZ) as:

MGCMPZZ = MGMSPZZ + MGPNPZZ

Beginning in 2015, commercial sector sales are the sum of three data series: miscellaneous (including unclassified and logging and railroad), public non-highway, and a new sales category, lawn and garden use (MGLGP):

MGCMPZZ = MGMSPZZ + MGPNPZZ + MGLGPZZ

Industrial sector sales of motor gasoline in each state (MGINPZZ) are the sum of the sales for agricultural use, for construction use, and for industrial and commercial use:

MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ

Total sales of motor gasoline in each state (MGTTPZZ) is calculated as the sum of the sales to the major sectors:

MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ

U.S. totals for the end-use sectors' sales and total sales are calculated as the sum of the states' sales.

The motor gasoline sales data for the end-use sectors in each state are used to apportion the U.S. total consumption of motor gasoline to the states and end-use sectors.

Total consumption of motor gasoline in each state (MGTCPZZ) is

calculated according to each state's share of the total sales:

MGTCPZZ = (MGTTPZZ / MGTTPUS) \* MGTCPUS

The commercial sector estimated consumption of motor gasoline (MGCCPZZ) is calculated:

MGCCPZZ = (MGCMPZZ / MGTTPZZ) \* MGTCPZZ

The industrial sector estimated consumption (MGICPZZ) is calculated:

MGICPZZ = (MGINPZZ / MGTTPZZ) \* MGTCPZZ

The transportation sector estimated consumption (MGACPZZ) is calculated:

MGACPZZ = (MGTRPZZ / MGTTPZZ) \* MGTCPZZ

The consumption of motor gasoline by end-use sector in the United States is estimated by summing the states' estimated consumption.

### British thermal units (Btu)

SEDS uses a national factor, MGTCKUS, to convert motor gasoline consumption from physical units to British thermal units (Btu) for each state. SEDS uses a constant heat content of 5.253 million Btu per barrel for 1960 through 1992. For 1993 forward, EIA calculates an annual average factor, as shown in Table B1 on page 207, for each state:

MGCCBZZ = MGCCPZZ \* MGTCKUS MGICBZZ = MGICPZZ \* MGTCKUS MGACBZZ = MGACPZZ \* MGTCKUS

Total Btu consumption of motor gasoline is the sum of the consumption by the commercial, industrial, and transportation sectors.

MGTCBZZ = MGCCBZZ + MGICBZZ + MGACBZZ

The U.S.-level Btu consumption estimates by end-use sector are the sum of the state data.

### Additional note

In 2008, the Federal Highway Administration updated its model to estimate non-highway use of motor gasoline. The new model, developed by the U.S. Department of Energy Oak Ridge National Lab, better accounts for different state-reported tax refund practices. For example,

some states report motor gasoline refunds by category while other states do not report any refunds for non-highway use of motor gasoline. The Federal Highway Administration uses state-reported data for states that offer refunds by category and modeled data for the other states that do not have usable reported data.

In 2015, the Federal Highway Administration revised its model to estimate non-highway use of motor gasoline. (See Off-Highway and Public-Use Gasoline Consumption Estimation Models used in the Federal Highway Administration.) Estimates from 2015 forward are not compatible with data before 2015.

In 2022, the Federal Highway Administration revised its model to estimate non-highway use of motor gasoline. In part, the new model uses volume estimates by equipment type from the U.S. Environmental Protection Agency's Motor Vehicle Emission Simulator (MOVES) for non-highway uses of motor gasoline-powered equipment, such as saws for logging. Estimates from 2022 forward are not compatible with the data before 2022.

### Additional calculations

To assist data users in the analysis of "pure" fossil fuel sources and renewable energy sources, SEDS publishes several data series for motor gasoline excluding fuel ethanol, for each state and the United States. The SEDS variables are:

MMACB = motor gasoline, excluding fuel ethanol, consumed by the transportation sector, in million Btu:

MMCCB = motor gasoline, excluding fuel ethanol, consumed by the commercial sector, in million Btu:

MMICB = motor gasoline, excluding fuel ethanol, consumed by the industrial sector, in million Btu; and

MMTCB = motor gasoline, excluding fuel ethanol, total consumption, in million Btu.

EMACB, EMCCB, EMICB, and EMTCB are the SEDS variables for fuel ethanol minus denaturant. See discussion on fuel ethanol in Section 5, "Renewable energy."

For 1993 forward, the SEDS formulas are:

MMACB = MGACB - EMACB MMCCB = MGCCB - EMCCB MMICB = MGICB - EMICB MMTCB = MGTCB - EMTCB Before 1993, SEDS assumes that EIA's motor gasoline product supplied data series excluded fuel ethanol:

MMACB = MGACB MMCCB = MGCCB MMICB = MGICB MMTCB = MGTCB

See discussion on fuel ethanol in Section 5, "Renewable energy."

SEDS only displays the motor gasoline excluding fuel ethanol series in the tables showing primary energy consumption by source. For consumption by end-use sector, SEDS defines motor gasoline as the blended product consumed by the end users, which includes fuel ethanol.

### Data sources

MGAGPZZ — Motor gasoline sold for agricultural use by state.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table G-24 in 1965, Table MF-24 (1966 through 2006), and Table 8.4.3 (2007 forward).

MGBTPZZ — Motor gasoline sold for boating use by state.

 2015 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table 8.4.3.

MGCUPZZ — Motor gasoline sold for construction use by state.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, Highway Statistics, Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table G-24 in 1965, Table MF-24 (1966 through 2006), and Table 8.4.3 (2007 forward).

MGIYPZZ — Motor gasoline sold for industrial and commercial use by state.

• 1960 through 1964: U.S. Department of Commerce, Bureau of

- Public Roads, Highway Statistics, Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table G-24 in 1965, Table MF-24 (1966 through 2006), and Table 8.4.3 (2007 forward).

MGLGPZZ — Motor gasoline sold for lawn and garden use by state.

 2015 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table 8.4.3.

MGMFPZZ — Motor fuel sold for highway use by state.

- 1960 through 1995: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics Summary to 1995*, Table MF-221 gives revised U.S. totals. State revisions can be calculated by adding data from Tables MF-225 and MF-226.
- 1996 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table MF-21 (1996 through 2006) and Table 8.4.2 (2007 forward).

MGMRPZZ — Motor gasoline sold for marine use by state.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.
- 1965 through 2014: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table G-24 in 1965, Table MF-24 (1966 through 2006), and Table 8.4.3 (2007 through 2014).

MGMSPZZ — Motor gasoline sold for miscellaneous uses by state.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24. Sum of the "Miscellaneous" column plus the "Unclassified" column minus the "Total Classified" column.
- 1965: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Table G-24. Sum of the "Miscellaneous" column plus the "Unclassified" column minus the "Total Classified" column.

- 1966 through 1981: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, <a href="http://www.fhwa.dot.gov/policyinformation/statistics.cfm">http://www.fhwa.dot.gov/policyinformation/statistics.cfm</a>, Table MF-24, sum of the "Miscellaneous" and the "Unclassified" columns.
- 1982 through 2021: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table MF-24 (1982 through 2006) and Table 8.4.3 (2007 forward), the "Miscellaneous" column.
- 2022 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table 8.4.3 (Table MF-24), the sum of the "Miscellaneous" and "Logging and Railroad" columns.

MGPNPZZ — Motor fuel sold for public non-highway use by state.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, Highway Statistics, Table G-21.
- 1985, 1987, and 1992: Unpublished revised state data comparable to the U.S. values published in *Highway Statistics Summary to 1995*, Table 221.
- 1965 through 1984, 1986, 1988 through 1991, and 1993 forward: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics http://www.fhwa.dot.gov/policyinformation/statistics.cfm, Table G-21 in 1965, Table MF-21 (1996 through 2006), and Table 8.4.2 (2007 forward).

 ${\sf MGRVPZZ-Motor\ gasoline\ sold\ for\ recreational\ vehicle\ use\ by\ state}.$ 

 2015 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot. gov/policyinformation/statistics.cfm, Table 8.4.3.

MGSFPZZ — Special fuels sales by state (primarily diesel fuel with small amounts of liquefied petroleum gases).

- 1960 through 1995: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics, Summary to 1995*, Table MF-225.
- 1996 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, <a href="http://www.fhwa.dot.gov/policyinformation/statistics.cfm">http://www.fhwa.dot.gov/policyinformation/statistics.cfm</a>, Table MF-21 (1996 through 2006) and Table 8.4.2 (2007 forward).

MGTCKUS — Factor for converting motor gasoline from physical units to Btu.

- 1960 through 1992: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Energy Markets 1947-1985, a 1968 release of historical and projected statistics. The factor excludes oxygenates.
- 1993 forward: EIA calculates the national annual average thermal conversion factor, which includes fuel ethanol blended into motor gasoline (shown in Appendix B Table B1 on page 207). For 1993-2006, it also includes methyl tertiary butyl ether (MTBE) and other oxygenates blended into motor gasoline.

MGTCPUS — Motor gasoline total consumption in the United States.

 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*. "Petroleum Statement, Annual," Table 1.

For 1960 through 1963, motor gasoline was combined with aviation gasoline and published as "gasoline" in the source table. Table 19 in the "Petroleum Statement, Annual" titled "Salient Statistics of Aviation Gasoline" provided separate data for aviation gasoline for those years. The aviation gasoline data from the second table were subtracted from the gasoline data in the first table to derive the motor gasoline consumption series used in SEDS.

- 1976 through 1980: EIA, *Energy Data Reports*. "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

### **Petroleum coke**

### Physical units

The State Energy Data System (SEDS) uses seven data series to estimate the consumption of petroleum coke. Five are measures of petroleum coke consumption and two are indicators of industrial activity used to allocate U.S. industrial petroleum coke consumption to the states. ("ZZ" in the variable name represents the two letter state code that differs for each state):

PCTCPUS	=	petroleum coke total consumption in the United			
		States, in thousand barrels;			
PCEIMZZ	=	petroleum coke consumed by the electric power			
		sector in each state, in thousand short tons:			

PCC3MZZ = petroleum coke consumed for combined-heat-andpower in the commercial sector in each state, in thousand short tons:

PCI3MZZ = petroleum coke consumed for combined-heatand-power in the industrial sector in each state, in thousand short tons:

PCRFPZZ = petroleum coke used at refineries as both catalytic and marketable coke in each state, or group of states, or Petroleum Administration for Defense (PAD) district, in thousand barrels;

CTCAPZZ = catalytic cracking charge capacity of petroleum refineries in each state, in barrels per calendar day (1960 through 1979) and barrels per stream day (1980 forward); and

AICAPZZ = aluminum ingot production capacity in each state, in short tons.

The total consumption of petroleum coke in the United States (PCTCPUS) is the product supplied series from the U.S. Energy Information Administration's (EIA) *Petroleum Supply Annual*.

Information on the amount of petroleum coke consumed for the purpose of generating electricity for the electric power, commercial, and industrial sectors is available from Form EIA-923, "Power Plant Operations Report," and predecessor forms. For the electric power sector (PCEIM), these data are available for 1970 forward. Before 1970, SEDS assumes that consumption is zero. For 1989 forward, electric power sector consumption includes petroleum coke consumed by electric utilities and independent power producers whose primary business is to sell electricity or electricity

and heat. SEDS also includes quantities of petroleum coke used by commercial (PCC3M) and industrial (PCI3M) facilities in combined-heat-and-power (CHP) units in their respective sectors.

SEDS converts the data for petroleum coke used to generate electricity from thousand short tons to thousand barrels by applying a conversion factor of five barrels per short ton. The U.S. value is the sum of the state data:

 $\begin{array}{lll} \text{PCEIPZZ} & = & \text{PCEIMZZ} * 5 \\ \text{PCEIPUS} & = & \Sigma \text{PCEIPZZ} \\ \text{PCCCPZZ} & = & \text{PCC3MZZ} * 5 \\ \text{PCCCPUS} & = & \Sigma \text{PCCCPZZ} \\ \text{PCI3PZZ} & = & \text{PCI3MZZ} * 5 \\ \text{PCI3PUS} & = & \Sigma \text{PCI3PZZ} \\ \end{array}$ 

SEDS estimates U.S. industrial consumption of petroleum coke by subtracting U.S. electric power and commercial consumption from the total U.S. petroleum coke product supplied:

PCICPUS = PCTCPUS - PCEIPUS - PCCCPUS

In addition to CHP generation, refineries in the industrial sector use petroleum coke as a catalyst to increase the yield of gasoline from crude oil (catalytic cracking) and for other industrial uses (mainly for conversion into electrodes to produce aluminum).

Before 2013, SEDS calculates state-level estimates of petroleum coke for refinery use by assuming that each state consumes petroleum coke in proportion to the catalytic cracking charge capacity (CTCAPZZ) of the refineries in the state. The U.S. total is the sum of the states.

 $CTCAPUS = \Sigma CTCAPZZ$ 

Petroleum coke consumed by refineries for 1960 through 1980 is available for some states while quantities for other states are grouped (G1 through G7 as indicated by GZ in the following formulas). The group quantities are allocated to the states within each group in proportion to each state's portion of the group's catalytic cracking charge capacity. For 1981 through 2012, PAD district data (P1 through P5 as indicated by PZ in the following formulas) are allocated in the same way to the states within each district:

PCRFPZZ = PCRFPZZ, or

PCRFPZZ = (CTCAPZZ / CTCAPGZ) \* PCRFPGZ (1 through 7),

or

PCRFPZZ = (CTCAPZZ / CTCAPPZ) \* PCRFPPZ (1 through 5)

### $PCRFPUS = \Sigma PCRFPZZ$

For 2013 forward, SEDS incorporates unpublished state-level refinery fuel consumption data that satisfy two statistical disclosure rules — that there are at least three refineries not of the same company in the state and that no one refinery uses more than 60% of the particular fuel. About six to nine states satisfy the disclosure rules and are used directly as state estimates. SEDS subtracts those states from the PAD district data, and allocates the remainders to the remaining states using CTCAPZZ.

SEDS subtracts U.S. petroleum coke used at CHP plants (PCI3PUS) and at refineries (PCRFPUS) from the U.S. industrial sector consumption to calculate U.S. consumption of petroleum coke for all other industrial uses:

PCOCPUS = PCICPUS - PCI3PUS - PCRFPUS

SEDS assumes state-level estimates of petroleum coke consumed by other industrial users, mainly aluminum production, are proportional to each state's aluminum ingot production capacity (AICAPZZ). For 1993 forward, SEDS adjusts state-level aluminum production capacity to account for under-utilization of the plants. Although AICAPZZ is measured in short tons, it is not converted to thousand barrels because it is used only as a state-level allocator. SEDS calculates the U.S. total as the sum of the states and allocates the other industrial use of petroleum coke to the states as follows:

 $AICAPUS = \Sigma AICAPZZ$ 

PCOCPZZ = (AICAPZZ / AICAPUS) \* PCOCPUS

Industrial sector petroleum coke consumption by state is the sum of CHP industrial use, consumption at refineries, and all other industrial uses:

PCICPZZ = PCI3PZZ + PCRFPZZ + PCOCPZZ

Total petroleum coke consumption by state is the sum of commercial, industrial, and electric power sector use:

PCTCPZZ = PCCCPZZ + PCICPZZ + PCEIPZZ

### British thermal units (Btu)

SEDS uses two series to convert petroleum coke from physical unit values to Btu:

PCCTKUS = factor for converting catalyst petroleum coke from physical units to Btu: and

PCMKKUS = factor for converting marketable petroleum coke from physical units to Btu.

For 2004 forward, PCCTKUS is a constant value of 6.287 million Btu per barrel and PCMKKUS is a constant value of 5.719 million Btu per barrel. For 1960 through 2003, EIA uses a constant factor of 6.024 million Btu per barrel for both series (see Appendix B).

SEDS applies these factors to convert estimated petroleum coke consumption from physical units to Btu by state:

PCCCBZZ = PCCCPZZ \* PCMKKUS PCI3BZZ = PCI3PZZ \* PCMKKUS PCOCBZZ = PCOCPZZ \* PCMKKUS PCRFBZZ = PCRFPZZ \* PCCTKUS PCEIBZZ = PCEIPZZ \* PCMKKUS

Petroleum coke consumed in the industrial sector is the sum of the three industrial series:

PCICBZZ = PCI3BZZ + PCRFBZZ + PCOCBZZ

Total Btu consumption of petroleum coke is the sum of the consumption by the end-use sectors and for electricity generation:

PCTCBZZ = PCCCBZZ + PCICBZZ + PCEIBZZ

The U.S. totals are the sum of the states' values.

### Additional note

ElA's *Petroleum Supply Annual*, and predecessor reports, are the source for petroleum coke used at refineries, PCRFPUS and PCRFPGZ. For 1960 through 1980, the source provides the data in thousand short tons. For consistency with later years' data, SEDS first converts the 1960 through 1980 data into thousand barrels before they are used in SEDS. For 1960 through 1967, the source published data for Texas and New Mexico and for groups of other states. For 1968 through 1980, the source publishes the data for 19 states and combines the remaining states into seven groups. SEDS disaggregates the grouped state data for 1960 through 1967 using the proportions of the 1968 data. For 1981 forward, the source only publishes the data for the PAD districts. For 2013 forward, SEDS incorporates unpublished state-level data that satisfy statistical

disclosure rules.

### Data sources

AICAPZZ — Aluminum ingot production capacity in each state.

- 1960 through 1973: American Bureau of Metal Statistics, Year Book.
- 1974 through 1994: American Bureau of Metal Statistics, Non-Ferrous Metal Data, table titled "Aluminum Ingot Production Capacity." Note: Capacities for individual plants owned by one company have been withheld since 1986. The company's total capacity has been apportioned to the individual plants on the basis of their proportional capacities in 1985.
- 1995 forward: U.S. Department of the Interior, U.S. Geological Survey, *Minerals Yearbook*.

CTCAPZZ — Catalytic cracking charge capacity of petroleum refineries by state.

- 1960: Data are unavailable from published reports. The 1961 values are used for 1960.
- 1961 through 1963: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Refineries in the United States." The specific tables are
  - 1961 and 1962: Table 7, under "Cracking Capacity" column heading "Charge."
  - 1963: Table 6, under "Catalytic-Cracking Capacity" column heading "Charge."
- 1964 through 1976: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Refineries in the United States and Puerto Rico," Table 2, all entries next to "Cat. Ck." summed by state.
- 1977: EIA, *Energy Data Reports*, "Petroleum Refineries in the United States and Puerto Rico," Table 2, all entries next to "Cat. Ck." summed by state.
- 1978: EIA, *Energy Data Reports*, "Petroleum Refineries in the United States and U.S. Territories," Table 2, all entries next to "Cat. Ck." summed by state.
- 1979 and 1980: EIA, *Energy Data Reports*, "Petroleum Refineries in the United States and U.S. Territories." The specific tables are
  - 1979: Table 2, sum of "Catalytic Cracking" columns, "Fresh" and

- "Recycle."
- 1980: Table 1, sum of "Catalytic Cracking (fresh)" and "Catalytic Cracking (recycle)" columns.
- 1981 through 2004: EIA, Petroleum Supply Annual, sum of "Catalytic Cracking (Fresh)" and "Catalytic Cracking (Recycled)" columns in the following tables:
  - 1981 through 1983: Table 1.
  - 1984: Table 30.
  - 1985 through 1989: Table 29.
  - 1989 through 1994: Table 36.
  - 1995: Data series became biannual. 1994 data used for 1995.
  - 1996: Table 36.
  - 1997: 1996 data used for 1997.
  - 1998 through 2004: Table 36, http://www.eia.gov/petroleum/supply/annual/volume1/.
- 2005 forward: EIA, *Refinery Capacity Report*, Table1, http://www.eia.gov/petroleum/refinerycapacity/.

PCC3MZZ — Petroleum coke consumed for combined-heat-and-power in the commercial sector by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

PCCTKUS — Factor for converting petroleum coke, catalyst coke from physical units to Btu.

- 1960 through 2003: EIA adopted the Bureau of Mines thermal conversion factor of 6.024 million Btu per barrel, from the Bureau of Mines internal memorandum "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."
- 2004 forward: Assumed by EIA to be 6.287 million Btu per barrel or equal to the thermal conversion factor for residual fuel oil.

PCEIMZZ — Petroleum coke consumed by the electric power sector by state.

- 1960 through 1969: No data available. Values are assumed to be zero.
- 1970 forward: EIA, Form EIA-923, "Power Plant Operations

Report," and predecessor forms.

PCI3MZZ — Petroleum coke consumed for combined-heat-and-power in the industrial sector by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

PCMKKUS — Factor for converting petroleum coke, marketable coke from physical units to Btu.

- 1960 through 2003: EIA adopted the Bureau of Mines thermal conversion factor of 6.024 million Btu per barrel, from the Bureau of Mines internal memorandum "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."
- 2004 forward: EIA adopts the thermal conversion factor of 5.719 million Btu per barrel, calculated by dividing 28,595,925 Btu per short ton for petroleum coke (from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1\_October 2013) by 5.0 barrels per short ton (as given in the Bureau of Mines Form 6-1300-M and successor EIA forms).

PCRFPZZ, PCRFPGZ, or PCRFPPZ — Petroleum coke consumed at refineries (both catalyst and marketable) by state or groups of states.

- 1960: No data available. The 1961 value is used for 1960.
- 1961 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual." The specific tables are
  - 1961 and 1962: Table 18.
  - 1962 through 1966: Table 19.
  - 1967: Table 18.
  - 1968: Table 19.
  - 1969 through 1972: Table 18.
  - 1973 and 1974: Table 21.
  - 1975: Table 22.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum

Statement, Annual." The specific tables are

- 1976: Table 22.
- 1977: Table 21.
- 1978 through 1980: Table 20.
- 1981 through 2004: EIA, Petroleum Supply Annual. The specific tables are
  - 1981 and 1982: Table 17.
  - 1983: Table 15.
  - 1984: Table 44.
  - 1985: Table 43.
  - 1986 through 1988: Table 38.
  - 1989 through 1992: Table 45.
  - 1995 and 1997: Table 36.
     1993 and 1994, 1996, and 1998 through 2004: http://www.eia.gov/petroleum/supply/annual/volume1/, Table 47.
- 2005 forward: EIA, Refinery Capacity Report, Table 12 (2006-2008), Table 12a (2009), and Table 10a (2010 forward), http://www.eia.gov/petroleum/refinerycapacity/. Also available at http://www.eia.gov/dnav/pet/pet\_pnp\_capfuel\_a\_(na)\_8FPP0\_Mbbl\_a.htm.

PCTCPUS — Petroleum coke total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Report*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

### Residual fuel oil

### Physical units

The State Energy Data System (SEDS) estimates state-level residual fuel oil consumption for the commercial, industrial, transportation, and electric power sectors. SEDS estimates the commercial, industrial, and transportation sectors using historical sales of residual fuel oil into or within each state, formerly published in the U.S. Energy Information Administration's (EIA) Fuel Oil and Kerosene Sales Report. EIA suspended its Fuel Oil and Kerosene Sales Report after data year 2020. For 2021 forward, SEDS uses historical sector and state shares to estimate the Fuel Oil and Kerosene Sales Report data. SEDS assigns the following variables to the sales series, in thousand barrels ("ZZ" in the following variable names represents the two-letter state code that differs for each state):

RFBKPZZ = residual fuel oil sold for vessel bunkering use (i.e.,

the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and oceangoing vessels, including vessels operated by oil companies, and fueling for other marine purposes), excluding sales to the military;

residual fuel oil sold to the commercial sector; RFCMPZZ =

RFIBPZZ residual fuel oil sold to industrial establishments

for space heating and for other industrial use (i.e., for all uses to mines, smelters, plants engaged in producing manufactured products, in processing goods, and in assembling);

residual fuel oil sold to the military, regardless of use; RFMIPZZ

RFMSPZZ = residual fuel oil sold for all other uses not identified in other sales categories;

RFOCPZZ = residual fuel oil sold for oil company use, including all fuel oil, crude oil, or acid sludge used as fuel at refineries, by pipelines, or in field operations; and

residual fuel oil sold to the railroads for use in fueling RFRRPZZ = trains, operating railroad equipment, space heating

of buildings, and other operations.

SEDS uses two other data series to represent residual fuel oil consumption:

RFEIPZZ = residual fuel oil consumed by the electric power sector in each state, in thousand barrels; and

RFTCPUS = residual fuel oil total supplied in the United States, in thousand barrels.

EIA collects residual fuel oil consumption by the electric power sector (RFEIPZZ) on Form EIA-923, "Power Plant Operations Report," and predecessor forms. (See Note 3 at the end of this residual fuel oil section for further information on changes in this series' data definitions.)

Total U.S. consumption of residual fuel oil. RFTCPUS, is the product supplied series in EIA's Petroleum Supply Annual.

SEDS calculates U.S. totals for all of the data series listed above as the sum of the state data series.

SEDS assigns the sales data series as closely as possible to the end-use sectors used in SEDS. EIA suspended its Fuel Oil and Kerosene Sales Report after data year 2020. For 2021 forward, SEDS calculates the U.S.-level average end-use sector shares for 2017—2019 and applies them to the current year U.S. total for all end-use sectors. Then, SEDS uses these U.S. sector totals and state shares to estimate state-level sales.

EIA assumes that no residual fuel oil is sold to the residential sector.

The commercial sector residual fuel oil sales is the RFCMPZZ series. Before 2021, SEDS assigns the sales from the Fuel Oil and Kerosene Sales Report and predecessor data sources. For 2021 forward, SEDS calculates the state-level historical average shares for 2017—2019 and applies them to the current year U.S.-level commercial sector sales total.

The industrial sector residual fuel oil sales (RFINPZZ) are the sum of the residual fuel oil sold for industrial use, including industrial heating and processing (RFIBPZZ), for oil company use (RFOCPZZ), and for all other uses (RFMSPZZ). Before 2021, SEDS assigns the sales from the Fuel Oil and Kerosene Sales Report and predecessor data sources. For 2021 forward, SEDS calculates the state-level historical average shares for each component for 2017—2019 and applies them to the current year U.S.-level industrial sector sales total.

RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ

RFINPUS = ΣRFINPZZ

The transportation sector residual fuel oil sales (RFTRPZZ) are the sum of the residual fuel oil sales for vessel bunkering (RFBKPZZ), military use (RFMIPZZ), and railroad use (RFRRPZZ). Before 2021, SEDS assigns the sales from the Fuel Oil and Kerosene Sales Report and predecessor

data sources. For 2021 forward, SEDS calculates the state-level historical average shares for each component for 2017—2019 and applies them to the current year U.S.-level transportation sector sales total.

RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ

RFTRPUS =  $\Sigma$ RFTRPZZ

SEDS sums the sales of residual fuel oil to the commercial, industrial, and transportation sectors to create a subtotal of sales to all end-use sectors (RFNDPZZ):

RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ

RFNDPUS =  $\Sigma$ RFNDPZZ

SEDS calculates the estimated U.S. residual fuel oil consumption for all end-use sectors (RFNCPUS) by subtracting the total residual fuel oil consumption for the electric power sector from the total U.S. residual fuel oil consumption:

RFNCPUS = RFTCPUS - RFEIPUS

SEDS allocates this U.S. subtotal of residual fuel oil consumption for all end-use sectors (RFNCPUS) to the states by using the states' end-use sector sales data. SEDS assumes that each state consumes residual fuel oil in proportion to the amount sold in that state:

RFNCPZZ = (RFNDPZZ / RFNDPUS) \* RFNCPUS

SEDS estimates state residual fuel oil consumption by sector using the ratio of each sector's sales to the subtotal of all end-use sectors. SEDS calculates the estimated commercial sector consumption in each state, RFCCPZZ, as:

RFCCPZZ = (RFCMPZZ / RFNDPZZ) \* RFNCPZZ

SEDS estimates the industrial sector's estimated consumption in each state, RFICPZZ, as:

RFICPZZ = (RFINPZZ / RFNDPZZ) \* RFNCPZZ

SEDS estimates the transportation sector's estimated consumption in each state, RFACPZZ, as:

RFACPZZ = (RFTRPZZ / RFNDPZZ) \* RFNCPZZ

SEDS estimates U.S. residual fuel oil consumption by the major end-use sectors as the sum of the states' estimated consumption.

SEDS estimates total state residual fuel oil consumption as the sum of all end-use sectors consumption and the electric power sector consumption:

RFTCPZZ = RFNCPZZ + RFEIPZZ

### British thermal units (Btu)

EIA assumes residual fuel oil has a heat content value of about 6.287 million Btu per barrel. SEDS applies this factor to convert estimated residual fuel oil consumption from physical units to Btu as shown in the following example:

RFCCBZZ = RFCCPZZ \* 6.287

SEDS calculates total Btu consumption of residual fuel oil as the sum of the consumption by the end-use sectors and for electricity generation:

RFTCBZZ = RFCCBZZ + RFICBZZ + RFACBZZ + RFEIBZZ

SEDS calculates the U.S.-level Btu consumption estimates as the sum of the states' Btu consumption.

### Additional notes

- 1. "Sales" data are actually called "shipments" in the source documents for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1983; and "sales" for 1984 forward.
- 2. In 1979, EIA implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979.") In the new survey form, certain end-use categories were redefined—in many cases, to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in SEDS to conform with the 1979 fuel oil deliveries classifications. The pre-1979 deliveries estimates are not published in this report but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into state and major end-use sector consumption estimates.

For residual fuel oil deliveries in 1979, the end-use categories "commercial" and "industrial" are available. The pre-1979 deliveries categories are called "heating" and "industrial." While the pre-1979

categories individually are not continuous with the 1979 categories, their subtotals are related. That is, a general comparison can be made between the sum of commercial and industrial deliveries in 1979 and the sum of heating and industrial deliveries in the pre-1979 years. Therefore, the following method was applied to present a comparable series for residual fuel oil delivered to the commercial and industrial sectors:

- For each of the pre-1979 years, a subtotal was created for each state by adding each state's heating and industrial deliveries categories. A comparable 1979 subtotal was created by adding each state's commercial and industrial deliveries categories.
- Commercial and industrial shares of the subtotal in 1979 were calculated for each state.
- These 1979 end-use shares were then applied to each pre-1979 subtotal of residual fuel oil deliveries in each state to create state estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 residual fuel oil deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual *Fuel Oil and Kerosene Sales Report*." EIA did not conduct a fuel oil and kerosene sales survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the sales data for 1983 forward are reported in thousand gallons. These data were first converted to thousand barrels before being entered into SEDS.)

3. The data on fuel oil consumed by the electric power sector for all years and states are actual fuel oil consumption numbers collected from electric power plants on Form EIA-923, "Power Plant Operations Report," and predecessor forms. Due to changes in fuel oil reporting classifications on the predecessor forms over the years, it is not possible to develop a thoroughly consistent series for all years. However, over time, data more accurately disaggregating fuel oil into distillate fuel oil and residual fuel oil have become available. For 1960 through 1969, only data on total fuel oil consumed at electric utilities by state are available. For 1970 through 1979, fuel oil consumed by plant type (internal combustion and gas turbine plants combined and steam plants) by state are available. For 1980 through 2000, data on consumption of light oil at all plant types combined and consumption of heavy oil at all plant types combined are available by state. For 2001 forward, data on consumption of distillate fuel oil and residual fuel oil are available. In SEDS, the following assumptions have been made:

- 1960 through 1969—state estimates of fuel oil consumption by plant type have been created for each year by applying the shares of steam plants (primarily residual fuel oil) and internal combustion and gas turbine plants (primarily distillate fuel oil plus small amounts of jet kerosene) by state in 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
- 1970 through 1979—fuel oil consumed by steam plants is assumed to equal residual fuel oil consumption, and fuel oil consumed by internal combustion and gas turbine plants is assumed to equal distillate fuel oil plus jet kerosene consumption.
- 1980 through 2000—total heavy oil consumption at all plant types is assumed to equal residual fuel oil consumption, and total light oil consumption at all plant types is assumed to equal distillate fuel oil plus jet kerosene consumption.

The data series thus derived for SEDS for residual fuel oil and distillate fuel oil consumption by the electric power sector is considered to be actual consumption by the electric power sector for each state and each year.

### Data sources

RFBKPZZ — Residual fuel oil sold for vessel bunkering use by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 17.
  - 1962 and 1963: Table 16.
  - 1964 and 1965: Table 15.
  - 1966 through 1975: Table 11.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 11.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 2.

• 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A13.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_ EPPR VVB Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_EPPR\_VVB\_ Mgal a.htm.

RFCMPZZ— Residual fuel oil sold to the commercial sector.

- 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of residual fuel oil from the EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene in 1979," Table 2. State ratios based on 1979 commercial sector deliveries were applied to each state's sum of heating plus industrial deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 2, on page 83.)
- 1979 and 1980: EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Notes: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS. Data for Hawaii in 1986 through 1990 reflect unpublished revisions from an EIA internal memorandum from the Office of Oil and Gas to the Office of Energy Markets and End Use, "Revising Historical Petroleum Data," February 26, 1993.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A13.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_ EPPR\_VCS\_Mgal\_a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_EPPR\_VCS\_ Mgal\_a.htm.

RFEIPZZ — Residual fuel oil consumed by the electric power sector.

- EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms. The following assumptions have been made:
  - 1960 through 1969: Only total fuel oil consumed at electric utilities by state is available. State estimates of residual fuel oil consumption were created for each year by applying the shares of steam plants (primarily residual fuel oil) by state from 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
  - 1970 through 1979: Fuel oil consumed by plant type by state is available. Fuel oil consumed by steam plants is assumed to equal residual fuel oil consumption.
  - 1980 through 2000: Consumption of heavy fuel at all plant types by state is available. This is assumed to equal residual fuel oil consumption.
  - 2001 forward: Consumption of residual fuel oil is available.

RFIBPZZ — Residual fuel oil sold to industrial establishments for heating and for other industrial use.

- 1960 through 1978: EIA, estimates based on statistics of industrial sector deliveries of residual fuel from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 2. State ratios based on 1979 industrial sector deliveries were applied to each state's sum of heating plus industrial deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 2, on page 83.)
- 1979 and 1980: EIA, Energy Data Report, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A13.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_ EPPR\_vin\_Mgal\_a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet cons 821rsd a EPPR vin

### Mgal\_a.htm.

RFMIPZZ — Residual fuel oil sold to the military regardless of use by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 18.
  - 1962 and 1963: Table 17.
  - 1964 and 1965: Table 16.
  - 1966 through 1975: Table 12.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 12.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A13.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_ EPPR VMI Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_EPPR\_VMI\_ Mgal\_a.htm.

RFMSPZZ — Residual fuel oil sold for miscellaneous uses by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 through 1962: Table 19.
  - 1963 and 1964: Table 18.
  - 1965 through 1967: Table 17.
  - 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil

- and Kerosene," Table 2, column "Other."
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5, column "All Other."

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS. The data series is titled "All Other."

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A13.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_ EPPR\_VOE\_Mgal\_a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_EPPR\_VOE\_ Mgal\_a.htm.

RFOCPZZ — Residual fuel oil sold for use by oil companies by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 14.
  - 1962 and 1963: Table 13.
  - 1964 and 1965: Table 12.
  - 1966 through 1975: Table 9.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 9.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene." Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A13.
- 1984 through 1987: EIA, Petoleum Marketing Monthly, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_ EPPR VOC Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available at http://www.eia.gov/dnav/pet/pet\_cons\_821rsd\_a\_EPPR\_VOC\_ Mgal a.htm.

0

RFRRPZZ — Residual fuel oil sold for use by railroads by state.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Shipments of Fuel Oil and Kerosene." The specific tables are
  - 1960 and 1961: Table 16.
  - 1962 and 1963: Table 15.
  - 1964 and 1965: Table 14.
  - 1966 through 1975: Table 10.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene." Table 10.
- 1979 and 1980: EIA, Energy Data Reports, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are
  - 1983: July 1985 issue, Table A13.
  - 1984 and 1985: July 1986 issue, Table A3.
  - 1986 and 1987: June 1988 issue, Table A5.
- 1988 and 1989: EIA, Fuel Oil and Kerosene Sales 1989, Table 5.
- 1990 forward: Series discontinued. Volumes are included with "All Other" data (in SEDS).

RFTCPUS — Residual fuel oil total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

### Other petroleum products

"Other petroleum products" (OP) is the sum of 12 petroleum products. These products, in thousand barrels, are:

- ABTCPUS = aviation gasoline blending components total consumption in the United States;
- BXSUPUS = biofuels (excluding fuel ethanol) product supplied in the United States:
- COTCPZZ = crude oil (including lease condensate) total consumption in each state:
- FNTCPUS = petrochemical feedstocks, naphtha less than 401°F, total consumption in the United States;
- FOTCPUS = petrochemical feedstocks, other oils equal to or greater than 401°F, total consumption in the United States;
- FSTCPUS = petrochemical feedstocks, still gas, total consumption in the United States (through 1985);
- MBTCPUS = motor gasoline blending components total consumption in the United States:
- MSTCPUS = miscellaneous petroleum products total consumption in the United States:
- SGTCPUS = still gas total consumption in the United States;
- SNTCPUS = special naphthas total consumption in the United States:
- UOTCPUS = unfinished oils total consumption in the United States: and
- WXTCPUS = waxes total consumption in the United States.

The State Energy Data System (SEDS) assumes that all of the products in "other petroleum products" are used by the industrial sector, except for biofuels (excluding fuel ethanol) product supplied that EIA assumes is in the transportation sector. SEDS creates state estimates for other petroleum products by using the following variables to allocate the products to the states:

- COCAPZZ = atmospheric crude oil distillation operable capacity (operating capacity before 2013) at refineries in each state as of January 1 of the following year, adjusted with information on new, shutdown, and reactivated refineries during the year, in barrels per calendar day:
- FNCASZZ = state's share of U.S. capacity of steam crackers using naphtha as feedstocks;

FOCASZZ = state's share of U.S. capacity of steam crackers using other oils as feedstocks;

OCVAVZZ = value of shipments (value added before 2001) for the industrial organic chemical manufacturing industry in each state, in million dollars;

PIVAVZZ = value of shipments (value added before 2001) for the paint and coating manufacturing industry in each state, in million dollars;

CGVAVZZ = value of shipments (value added before 2001) for the corrugated and solid fiber box manufacturing industry in each state, in million dollars;

BDACPZZ = biodiesel consumption in the transportation sector, in thousand barrels; and

B1ACPZZ = renewable diesel consumption in the transportation sector, in thousand barrels.

Value of shipments and value added are two measures of manufacturing activity, both from the Department of Commerce *Economic Census* (previously, *Census of Manufactures*) reports. Value of shipments is a close approximation of gross output, adjusted for inventory changes. Value added excludes the cost of materials from gross output. Before 2001, SEDS uses the value added data to allocate the national consumption of selected petroleum products to the states. For 2001 forward, SEDS uses the value of shipments data instead. The change was made because gross output is considered a better indicator of consumption of fuel and feedstock than value added.

### **Crude oil**

Usually refineries process crude oil to produce petroleum products, but rarely other users use crude oil directly (as energy consumption). Before 1983, The U.S. Energy Information Administration (EIA) reported crude oil burned on leases and by pipelines as fuel as either distillate or residual fuel oil and included it in product supplied for those products. For 1983 through 2009, crude oil used directly in petroleum industry operations was reported as product supplied in EIA's *Petroleum Supply Annual*. For 2010 forward, EIA assumes that crude oil product supplied, and therefore consumption, is equal to zero.

### Physical units

State estimates for crude oil consumed in petroleum industry operations are the data series COTCPZZ. The U.S. total is the sum of the states:

COTCPUS =  $\Sigma$ COTCPZZ

Industrial consumption equals total consumption of crude oil:

COICPZZ = COTCPZZ COICPUS = COTCPUS

### British thermal units (Btu)

Crude oil has a heat content value of 5.800 million Btu per barrel. SEDS calculates total Btu consumption and industrial Btu consumption by state and for the United States as:

COTCBZZ = COTCPZZ \* 5.800 COTCBUS = ΣCOTCBZZ COICBZZ = COTCBZZ COICBUS = COTCBUS

### Data source

COTCPZZ — Crude oil consumed in petroleum industry operations by state.

- 1960 through 1982: Crude oil used directly was included in distillate and residual fuel oil product supplied when reported to the U. S. Energy Information Administration. Zeros are entered for all years.
- 1983 through 2009: Data are available for Petroleum Administration for Defense (PAD) districts, not by state. State estimates are calculated by allocating all crude oil consumption to the six states (Alaska, California, Colorado, Louisiana, Texas, and Utah) that reported distillate and residual fuel oils consumed by pipeline and leases in 1982. (Data on pipeline and lease consumption of fuels are not available after 1982.) Each state's 1982 ratio of distillate and residual fuel oils consumed by pipeline and leases to its respective 1982 PAD district total consumption of those fuels is calculated. This ratio is then applied to the 1983 forward PAD district totals of crude oil product supplied. The 1982 ratios are taken from the Form EIA-90, "Crude Oil Stocks Report," and the crude oil product supplied data are taken from the EIA Petroleum Supply Annual, http://www.eia.gov/petroleum/supply/annual/volume1/. The specific tables are
  - 1983 through 1988: Tables 2 and 4 through 8.

M

- 1989 through 2004: Tables 2, 4, 6, 8, 10, and 12.
- 2005 through 2009: Tables 1, 3, 5, 7, 9, and 11.
- 2010 forward: Zeroes are entered for all years.

# Aviation gasoline blending components; petrochemical feedstocks, still gas; motor gasoline blending components; still gas; and unfinished oils

### Physical units

Refineries consume the five petroleum products in this category as fuels. For 1986 forward, the source reports still gas for petrochemical feedstocks and still gas for other uses together. SEDS estimates state consumption of these products in proportion to each state's crude oil operable capacity at refineries (COCAPZZ). Before 2013, SEDS used operating capacity to allocate consumption. Occasionally, total product supplied for aviation gasoline blending components and unfinished oils is negative. This can occur when such products enter the primary supply channels without reporting their production (e.g., streams returned to refineries from petrochemical plants). SEDS allocates any negative values to the states using the same method. The U.S. total is the sum of the states:

 $COCAPUS = \Sigma COCAPZZ$ 

Aviation gasoline blending components state and U.S. consumption are estimated:

ABTCPZZ = (COCAPZZ / COCAPUS) \* ABTCPUS

ABICPZZ = ABTCPZZ ABICPUS = ABTCPUS

Petrochemical feedstocks, still gas, state and U.S. consumption are estimated:

FSTCPZZ = (COCAPZZ / COCAPUS) \* FSTCPUS

FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS

Motor gasoline blending components state and U.S. consumption are estimated:

MBTCPZZ = (COCAPZZ / COCAPUS) \* MBTCPUS

MBICPZZ = MBTCPZZ

MBICPUS = MBTCPUS

Still gas state and U.S. consumption are estimated:

SGTCPZZ = (COCAPZZ / COCAPUS) \* SGTCPUS

SGICPZZ = SGTCPZZ SGICPUS = SGTCPUS

Unfinished oils state and U.S. consumption are estimated:

UOTCPZZ = (COCAPZZ / COCAPUS) \* UOTCPUS

UOICPZZ = UOTCPZZ UOICPUS = UOTCPUS

### British thermal units (Btu)

SEDS develops Btu estimates for all of the products in this group as the product of the estimated consumption for each individual product, in physical units, by its respective Btu conversion factor. The conversion factors for aviation gasoline blending components, petrochemical feedstocks of still gas, and unfinished oils are constant for all years. Motor gasoline blending components and still gas use different conversion factors, depending on the year. The formulas are:

ABTCBZZ = ABTCPZZ \* 5.048

ABTCBUS = ΣABTCBZZ ABICBZZ = ABTCBZZ ABICBUS = ABTCBUS

FSTCBZZ = FSTCPZZ \* 6.000

FSTCBUS =  $\Sigma$ FSTCBZZ FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS

UOTCBZZ = UOTCPZZ \* 5.825

UOTCBUS = ΣUOTCBZZ UOICBZZ = UOTCBZZ UOICBUS = UOTCBUS

The factor for converting motor gasoline blending components from physical unit values to Btu, MBTCKUS, is fixed at 5.253 million Btu per barrel for 1960 through 2006, and at 5.222 million Btu per barrel for 2007 forward:

MBTCKUS = factor for converting motor gasoline blending

components from physical units to Btu.

MBTCBZZ = MBTCPZZ \* MBTCKUS

MBTCBUS = ΣMBTCBZZ MBICBZZ = MBTCBZZ MBICBUS = MBTCBUS

The factor for converting still gas from physical unit values to Btu is fixed at 6.000 million Btu per barrel for 1960 through 2015 and at 6.287 million Btu per barrel for 2016 forward:

SGTCBZZ = SGTCPZZ \* 6.000 through 2015

SGTCBZZ SGTCPZZ \* 6.287 beginning in 2016

SGTCBUS = ΣSGTCBZZ SGICBZZ = SGTCBZZ SGICBUS = SGTCBUS

### Data sources

ABTCPUS — Aviation gasoline blending components total consumption in the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

COCAPZZ — Atmospheric crude oil distillation operable capacity (operating capacity before 2013) at refineries by state as of January 1 of the following year.

- 1960: U.S. Department of the Interior, Bureau of Mines, Petroleum Refineries, Including Cracking Plants, in the United States, Table 3.
- 1961 through 1963: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Refineries in the United States." The specific tables are
  - 1961 and 1962: Table 3.
  - 1963: Table 1.
- 1964 through 1976: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Refineries in the United States and Puerto Rico." Table 1.

- 1977: EIA, Energy Data Reports, "Petroleum Refineries in the United States and Puerto Rico." Table 1.
- 1978 through 1980: EIA, Energy Data Reports, "Petroleum Refineries in the United States and U.S. Territories," Table 1.
- 1981 through 2004: EIA, *Petroleum Supply Annual*, http://www.eia.gov/petroleum/supply/annual/volume1/. The specific tables are
  - 1981 through 1983: Table 1.
  - 1984: Table 30.
  - 1985 through 1988: Table 29.
  - 1989 through 1994: Table 36.
  - 1995: Unpublished data based on Form EIA-810.
  - 1996 through 2004: Table 36.
- 2005 forward: EIA, Refinery Capacity Report, http://www.eia.gov/petroleum/refinerycapacity/, Table 1, supplemented with Table 11 data for 2011 through 2020 and unpublished monthly data for 2021 forward.

FSTCPUS — Petrochemical feedstocks, still gas, total consumption in the United States (through 1985).

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 14.
- 1983 through 1985: EIA, Petroleum Supply Annual, Table 12.

MBTCPUS — Motor gasoline blending components total consumption in the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

MBTCKUS — Factor for converting motor gasoline blending components

from physical units to Btu.

- 1960 through 2006: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel, from the Bureau of Mines internal memorandum "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."
- 2007 forward: EIA adopted the thermal conversion factor of 5.222 million Btu per barrel (124,340 Btu per gallon) for gasoline blendstock from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1\_2013, October 2013.

SGTCPUS — Still gas total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 14.
- 1983 through 1985: EIA, Petroleum Supply Annual, Table 12.
- 1986 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1986 through 2004: Table 2.
  - 2005 forward: Table 1.

UOTCPUS — Unfinished oils total consumption in the United States.

- 1960 through 1980: No data available. Values assumed to be zero.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

# Petrochemical feedstocks, naphtha less than 401°F; and petrochemical feedstocks, other oils equal to or greater than 401°F

### Physical units

The chemical industry consumes petrochemical feedstocks, naphtha and other oils, to produce petrochemical "building blocks" (such as ethylene) that, in turn, make products such as synthetic fibers, synthetic rubber, and plastics.

The chemical industry produces petrochemicals such as ethylene and propylene by steam cracking. SEDS allocates the U.S. consumption of petrochemical feedstocks to the states using information on nameplate capacity and the share of naphtha and other oils in the feedstock mixture for all steam cracker plants that produce ethylene from various issues of the *Oil and Gas Journal*. For 1997 through 1999, 2002, 2004, 2008, and 2010 through 2014, SEDS uses the capacity data to calculate state shares of steam crackers using naphtha (FNCASZZ) and those using other oils (FOCASZZ). Texas and Louisiana are the only two states that use naphtha and other oils as feedstocks in their steam crackers. SEDS estimates the shares for the interim years using the compound annual growth rates of the years with data. SEDS uses the shares for 1997 for the earlier years.

For 2015 forward, the *Oil and Gas Journal* information is not available. SEDS uses the 2014 values for 2015 forward.

SEDS estimates consumption of petrochemical feedstocks, naphtha less than 401°F, by state and the United States as:

FNTCPZZ = FNTCPUS \* FNCASZZ

FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS

Petrochemical feedstocks, other oils equal to or greater than 401°F, state and U.S. consumption are estimated:

FOTCPZZ = FOTCPUS \* FOCASZZ

FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS

British thermal units (Btu)

SEDS develops Btu estimates for the six petroleum products in this group

# D

as the product of each individual product's estimated consumption, in physical units, by its respective Btu conversion factor. SEDS calculates total Btu consumption and industrial Btu consumption by state and for the United States as:

FNTCBZZ = FNTCPZZ \* 5.248

FNTCBUS =  $\Sigma$ FNTCBZZ FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS

FOTCBZZ = FOTCPZZ \* 5.825

FOTCBUS =  $\Sigma$ FOTCBZZ FOICBZZ = FOTCBZZ FOICBUS = FOTCBUS

### Additional note

Before the 2010 cycle, SEDS allocated the two products to the states in proportion to either the U.S. Census Bureau Economic Census value of shipments or value added in the manufacture of industrial organic chemicals. SEDS used the organic chemical manufacturing data because state-level data for petrochemical manufacturing were not available. This resulted in the allocation of petrochemical feedstocks to more than 25 states, most of which did not produce petrochemicals. The Oil and Gas Journal steam cracker capacity shares that SEDS uses in its current method, while requiring estimations, makes better state allocators.

### Data sources

FNCASZZ — State's share of U.S. capacity of steam crackers using naphtha as feedstocks.

- 1960 through 1996: The share for 1997 is used.
- 1997 through 1999, 2002, 2004, 2008, and 2010 through 2014: Oil and Gas Journal, specific issues focusing on ethylene production, table on "International Survey of Ethylene from Steam Crackers."
- 2000, 2001, 2003, 2007, 2009, 2015 forward: EIA estimation, based on data available from the Oil and Gas Journal.

FNTCPUS — Petrochemical feedstocks, naphtha less than 401°F, total consumption in the United States.

• 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.

- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
  - 1981 forward: EIA, Petroleum Supply Annual, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
    - 1981 through 2004: Table 2.
    - 2005 forward: Table 1.

FOCASZZ — State's share of U.S. capacity of steam crackers using other oils as feedstocks.

- 1960 through 1996: The share for 1997 is used.
- 1997 through 1999, 2002, 2004, 2008, and 2010 through 2014: Oil and Gas Journal, specific issues focusing on ethylene production, table on "International Survey of Ethylene from Steam Crackers."
- 2000, 2001, 2003, 2007, 2009, 2015 forward: EIA estimation, based on data available from the Oil and Gas Journal.

FOTCPUS — Petrochemical feedstocks, other oils equal to or greater than 401°F, total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

### Miscellaneous petroleum products

### Physical units

Miscellaneous products include all finished petroleum products not classified elsewhere, such as petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feed stocks, and specialty oils. EIA

assumes that the organic chemical industry consumes most of these products.

SEDS creates state estimates for these products in proportion to the value of shipments (value added before 2001) for the manufacture of industrial organic chemicals in each state (OCVAVZZ).

The U.S. total is the sum of the states:

 $OCVAVUS = \Sigma OCVAVZZ$ 

Miscellaneous petroleum products state and U.S. consumption are estimated:

MSTCPZZ = (OCVAVZZ / OCVAVUS) \* MSTCPUS

MSICPZZ = MSTCPZZ MSICPUS = MSTCPUS

### British thermal units (Btu)

EIA uses an average heat content value of 5.796 million Btu per barrel for miscellaneous petroleum products. SEDS calculates total Btu consumption and industrial Btu consumption by state and for the United States as:

MSTCBZZ = MSTCPZZ \* 5.796 $MSTCBUS = \Sigma MSTCBZZ$ 

Miscellaneous petroleum products consumed in the industrial sector is equal to total consumption:

MSICBZZ = MSTCBZZ MSICBUS = MSTCBUS

### Data sources

MSTCPUS — Miscellaneous petroleum products consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and

Petroleum Products, column titled "Products Supplied." The specific tables are

- 1981 through 2004: Table 2.
- 2005 forward: Table 1. Naphtha-type jet fuel volumes (JNTCPUS) are included in "Miscellaneous Products" in the *Petroleum Supply Annual*, Table 1.

OCVAVZZ — Value of shipments for the industrial organic chemicals manufacturing industry by state.

Note: Value added before 2001.

- 1960 through 1970: U.S. Department of Commerce, 1967 Census of Manufactures, Volume II, Part 2, Standard Industrial Classification (SIC) 2818. The 1963 state data are used for the years 1960 through 1965, and the 1967 state data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, 1977 Census of Manufactures, Industry Series, SIC 2869. The 1972 state data are used for 1971 through 1975, and the 1977 state data are used for 1976 through 1980.
- 1981 through 1985: U.S. Department of Commerce, 1987 Census of Manufactures (Final Report), Industry Series, SIC 2869. The 1982 state data are used for 1981 through 1985.
- 1986 through 1995: U.S. Department of Commerce, 1992 Census of Manufactures (Final Report), Industry Series, SIC 2869. The 1987 state data are used for 1986 through 1990, and the 1992 state data are used for 1991 through 1995.
- 1996 through 2000: U.S. Department of Commerce, 1997
   Economic Census, Manufacturing, Industry Series, EC97M3251A for North American Industry Classification System
  (NAICS) 325110 "Petrochemical Manufacturing" and EC97M3251G for NAICS 325119 "All Other Basic Inorganic Chemical
  Manufacturing." The value added by manufacture for both
  categories are summed to create a data series generally
  comparable to the SIC 2869 used previously available at http://
  data.census.gov/cedsci/.
- 2001 forward: U.S. Department of Commerce, Economic Census, Manufacturing, Geographic Area Series, column titled "Value of shipments" data for NAICS series 325110, 325120, and 325199 shown in the datasets available at http://data.census.gov/cedsci/.

P

See Additional Note 2 on page 98 for the methodology used to estimated withheld values.

- 2001 through 2005: 2002 Economic Census.
- 2006 through 2012: 2007 Economic Census.
- 2013 through 2016: 2012 Economic Census.
- 2017 forward: 2017 Economic Census.

### **Special naphthas**

### Physical units

Special naphthas are used as paint and varnish thinners and dry cleaning liquids or solvents. SEDS allocates special naphthas to the states in proportion to the value of shipments (value added before 2001) for the manufacture of paints and allied products in each state (PIVAVZZ).

The U.S. total is the sum of the states:

 $PIVAVUS = \Sigma PIVAVZZ$ 

SEDS estimates special naphthas consumption for states and the United States as:

SNTCPZZ = (PIVAVZZ / PIVAVUS) \* SNTCPUS

SNICPZZ = SNTCPZZ SNICPUS = SNTCPUS

### British thermal units (Btu)

EIA assumes special naphthas have a heat content value of 5.248 million Btu per barrel. SEDS uses this factor to convert special naphthas estimated consumption from physical units to Btu by state. The U.S. total is the sum of the states:

SNTCBZZ = SNTCPZZ \* 5.248SNTCBUS =  $\Sigma$ SNTCBZZ

Special naphthas consumed in the industrial sector is equal to total consumption.

SNICBZZ = SNTCBZZ SNICBUS = SNTCBUS

### Data sources

PIVAVZZ — Value of shipments for the paint and coating manufacturing

industry by state.

Note: Value added before 2001.

- 1960 through 1970: U.S. Department of Commerce, 1967 Census of Manufactures, Volume II, Part 2, SIC 2851. The 1963 state data are used for the years 1960 through 1965, and the 1967 state data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, 1977 Census of Manufactures, Industry Series, SIC 2851. The 1972 state data are used for 1971 through 1975, and the 1977 state data are used for 1976 through 1980.
- 1981 through 1985: U.S. Department of Commerce, 1987 Census of Manufactures (Final Report), Industry Series, SIC 2851. The 1982 state data are used for the years 1981 through 1985.
- 1986 through 1995: U.S. Department of Commerce, 1992 Census of Manufactures (Final Report), Industry Series, SIC 2851. The 1987 state data are used for the years 1986 through 1990, and the 1992 state data are used for 1991 through 1995.
- 1996 through 2000: U.S. Department of Commerce, 1997 Economic Census, Manufacturing, Industry Series, EC97M-3255A for NAICS 325510 "Paint and Coating Manufacturing," available at http://data.census.gov/cedsci/.
- 2001 forward: U.S. Department of Commerce, Economic Census, Manufacturing, Geographic Area Series, column titled "Value of shipments" data for NAICS series 325510 shown in the data sets available at <a href="http://data.census.gov/cedsci/">http://data.census.gov/cedsci/</a>. See Additional Note 2 on page 98 for the methodology used to estimated withheld values.
  - 2001 through 2005: 2002 Economic Census.
  - 2006 through 2012: 2007 *Economic Census*.
  - 2013 through 2016: 2012 Economic Census.
  - 2017 forward: 2017 Economic Census.

SNTCPUS — Special naphthas total consumption in the United States.

- 1960 through 1963: Data included in motor gasoline.
- 1964 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.

- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

### Waxes

### Physical units

Food packaging accounts for more than 50% of petroleum wax consumption in the United States because petroleum waxes are cost-effective moisture and gas barriers. SEDS allocates waxes to the states in proportion to the value of shipments (value added before 2001) for the manufacture of corrugated and solid fiber boxes by state (CGVAVZZ).

The U.S. total is the sum of the states:

 $CGVAVUS = \Sigma CGVAVZZ$ 

SEDS calculates state and U.S. consumption estimates as:

WXTCPZZ = (CGVAVZZ / CGVAVUS) \* WXTCPUS

WXICPZZ = WXTCPZZ WXICPUS = WXTCPUS

### British thermal units (Btu)

EIA assumes waxes have a heat content value of 5.537 million Btu per barrel. SEDS uses this factor to convert the estimated consumption of waxes from physical units to Btu by state. The U.S. total is the sum of the states:

WXTCBZZ = WXTCPZZ \* 5.537WXTCBUS =  $\Sigma$ WXTCBZZ

Wax consumption in the industrial sector is equal to total consumption.

WXICBZZ = WXTCBZZ WXICBUS = WXTCBUS

### Data sources

 ${\sf CGVAVZZ-Value} \ \ {\sf of} \ \ {\sf shipments} \ \ {\sf for} \ \ {\sf the} \ \ {\sf solid} \ \ {\sf fiber} \ \ {\sf box} \ \ {\sf manufacturing}$ 

industry by state.

Note: Value added before 2001. Before 1992, this series was value added for the sanitary food container manufacturing industry.

- 1960 through 1965: U.S. Department of Commerce, *1963 Census* of *Manufactures*, Volume II, Part 1, SIC 2654. The 1963 state data are used for the years 1960 through 1965.
- 1966 through 1970: U.S. Department of Commerce, 1967 Census of Manufactures, Volume II, Part 2, SIC 2654. The 1967 state data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, 1977 Census of Manufactures, Industry Series, SIC 2654. The 1972 state data are used for 1971 through 1975, and the 1977 state data are used for 1976 through 1980.
- 1981 through 1990: U.S. Department of Commerce, 1982 Census of Manufactures (Final Report), Industry Series, SIC 2654. The 1982 state data are used for 1981 through 1990.
- 1991 through 1995: U.S. Department of Commerce, 1992 Census of Manufactures (Final Report), Industry Series, SIC 2653. The 1992 state data are used for 1991 through 1995.
- 1996 through 2000: U.S. Department of Commerce, 1997
   Economic Census, Manufacturing, Industry Series, EC97M 3222A for NAICS 322211 "Corrugated and Solid Fiber Box
   Manufacturing" available at http://data.census.gov/cedsci/.
- 2001 forward: U.S. Department of Commerce, Economic Census, Manufacturing, Geographic Area Series, column titled "Value of shipments" data for NAICS series 322211 shown in the data sets available at <a href="http://data.census.gov/cedsci/">http://data.census.gov/cedsci/</a>. See Additional Note 2 on page 98 for the methodology used to estimated withheld values.
  - 2001 through 2005: 2002 Economic Census.
  - 2006 through 2012: 2007 Economic Census.
  - 2013 through 2016: 2012 Economic Census.
  - 2017 forward: 2017 Economic Census.

### WXTCPUS — Waxes total consumption in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum

- Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia. gov/petroleum/supply/annual/volume1/, table on U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, column titled "Products Supplied." The specific tables are
  - 1981 through 2004: Table 2.
  - 2005 forward: Table 1.

## Biofuels (excluding fuel ethanol) product supplied

For 2021 forward, EIA includes some biofuels (excluding fuel ethanol) product supplied in its petroleum Supply and Disposition table. Before 2021, EIA classified these data as biofuels (excluding fuel ethanol) adjustments. The biofuels product supplied is essentially an error category that is not reconcilable with EIA's collected survey data and includes supply of biodiesel, renewable diesel, and other biofuels (such as B100 biodiesel and R100 renewable diesel fuel) that are not reported as inputs on EIA surveys. Any fuel ethanol of a similar sense remains classified in the adjustments category.

An important distinction between biofuels product supplied and traditional petroleum product supplied is that biofuels product supplied is not equal to biofuels consumption. EIA uses petroleum product supplied as a proxy for petroleum consumption because it measures the disappearance of products from primary sources, such as: refineries, natural gasprocessing plants, blending plants, pipelines, and bulk terminals. In general, EIA calculates product supplied as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, and minus exports. EIA does not collect information on some biofuels exports.

### Physical units

For 2021 forward, the State Energy Data System (SEDS) incorporates biofuels (excluding fuel ethanol) product supplied to align with the other EIA publications at the U.S.-level. The U.S. total is equal to the biofuels (excluding fuel ethanol) data series published in EIA's *Petroleum Supply Annual*. The U.S. total differs from the sum of the states because state-level data are not available for other biofuels product supplied.

BXSUPUS = biofuels (excluding fuel ethanol) product supplied in the United States, in thousand barrels.

No public source data on state-level biofuels (excluding fuel ethanol) product supplied by sector are available, so SEDS estimates state-level data where possible and assumes that all biofuels product supplied occurs in the transportation sector only.

For biodiesel and renewable diesel, SEDS allocates U.S.-level product supplied from the *Petroleum Supply Annual* to the states proportionally to each respective fuels estimated state-level consumption in SEDS.

BDSUPUS = biodiesel product supplied for the United States, in

thousand barrels.

BDSUPZZ = (BDTCPZZ/BDTCPUS) \* BDSUPUS

B1SUPUS = renewable diesel product supplied for the United

States, in thousand barrels.

B1SUPZZ = (B1TCPZZ / B1TCPUS) \* B1SUPUS

Due to lack of state-level information, SEDS cannot allocate the other biofuels product supplied category from the *Petroleum Supply Annual* to the states and SEDS only includes other biofuels product supplied at the U.S.-level.

BOSUPUS = other biofuels product supplied for the United States, in thousand barrels.

SEDS calculates total biofuels (excluding fuel ethanol) product supplied by state, in thousand barrels, as the sum of the available state-level fuels (biodiesel and renewable diesel):

BXSUPZZ = BDSUPZZ + B1SUPZZ

### British thermal units (Btu)

SEDS develops estimates in billion Btu for all of the fuels in this group as the product of the estimated consumption for each individual fuel, in physical units, by its respective Btu conversion factor. For biodiesel and renewable diesel, the U.S. total product supplied is equal to the sum of the states. For other biofuels product supplied, there are only U.S.-level estimates and not state-level estimates. The formulas are:

BDSUBZZ = BDSUPZZ \* 5.359

BDSUBUS =  $\Sigma$ BDSUBZZ

B1SUBZZ = B1SUPZZ \* 5.494

H

B1SUBUS =  $\Sigma$ B1SUBZZ

BOSUBUS = BOSUPUS \* 5.359

SEDS calculates total biofuels (excluding fuel ethanol) product supplied by state, in billion Btu, as the sum of the available state-level fuels (biodiesel and renewable diesel):

BXSUBZZ = BDSUBZZ + B1SUBZZ

SEDS calculates total biofuels (excluding fuel ethanol) product supplied for the United States, in billion Btu, as the sum of all the fuels (biodiesel, renewable diesel, and other biofuels):

BXSUBUS = BDSUBUS + B1SUBUS + BOSUBUS

#### Data sources

BDSUPUS — Biodiesel product supplied in the United States.

2021 forward: EIA, Petroleum Supply Annual, http://www.eia.gov/dnav/pet/pet\_cons\_psup\_a\_EPOORDB\_VPP\_mbbl\_a.htm.

BOSUPUS — Other biofuels product supplied in the United States.

• 2021 forward: EIA, *Petroleum Supply Annual*, http://www.eia.gov/dnav/pet/pet\_cons\_psup\_a\_EPOORO\_VPP\_mbbl\_a.htm.

 $\ensuremath{\mathsf{BXSUPUS}}$  — Biofuels (excluding fuel ethanol) product supplied in the United States.

2021 forward: EIA, Petroleum Supply Annual, http://www.eia.gov/dnav/pet/pet cons psup a EPOORXFE VPP mbbl a.htm.

B1SUPUS — Renewable diesel product supplied in the United States.

• 2021 forward: EIA, *Petroleum Supply Annual*, http://www.eia.gov/dnav/pet/pet\_cons\_psup\_a\_EPOORDO\_VPP\_mbbl\_a.htm.

# **Total other petroleum products**

### Physical units

SEDS allocates other petroleum products to the industrial and transportation sectors. Nearly all products are in the industrial sector. Only biofuels product supplied is in the transportation sector.

For the industrial sector, total other petroleum products is the sum of 11 "other petroleum products." SEDS calculates state and U.S. industrial use of these other petroleum products as:

OPICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ +

FSICPZZ + MBICPZZ + MSICPZZ + SGICPZZ +

SNICPZZ + UOICPZZ + WXICPZZ

OPICPUS =  $\Sigma$ OPICPZZ

For the transportation sector, total other petroleum products is the sum of the biofuels product supplied. The U.S.-total is not equal to the sum of the states. SEDS calculates state and U.S. transportation use of these other petroleum products as:

OPACPZZ = BXSUPZZ OPACPUS = BXSUPUS

Total consumption of these products in all sectors is calculated:

OPTCPZZ = ABTCPZZ + BXSUPZZ + COTCPZZ + FNTCPZZ +

FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + WXTCPZZ

OPTCPUS = ABTCPUS + BXSUPUS + COTCPUS + FNTCPUS

+ FOTCPUS + FSTCPUS + MBTCPUS +

MSTCPUS + SGTCPUS + SNTCPUS + UOTCPUS

+ WXTCPUS

### British thermal units (Btu)

For the industrial sector, estimated consumption of the 11 "other petroleum products" in Btu is the sum of the Btu consumption of each product by the industrial sector. SEDS calculates the state and U.S. industrial sector totals as:

OPICBZZ = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ +

FSICBZZ + MBICBZZ + MSICBZZ + SGICBZZ +

SNICBZZ + UOICBZZ + WXICBZZ

OPICBUS =  $\Sigma$ OPICBZZ

For the transportation sector, estimated consumption is the sum of the Btu consumption of biofuels product supplied in the transportation sector. The U.S.-total is not equal to the sum of the states. SEDS calculates the state and U.S. transportation sector totals as:

OPACBZZ = BXSUBZZ OPACBUS = BXSUBUS

SEDS calculates state and U.S. total consumption of these products in all sectors as:

S

OPTCBZZ = ABTCBZZ + BXSUBZZ + COTCBZZ + FNTCBZZ +

FOTCBZZ + FSTCBZZ + MBTCBZZ + MSTCBZZ +

SGTCBZZ + SNTCBZZ + UOTCBZZ + WXTCBZZ

OPTCBUS = ABTCBUS + BXSUBUS + COTCBUS + FNTCBUS

+ FOTCBUS + FSTCBUS + MBTCBUS +

MSTCBUS + SGTCBUS + SNTCBUS + UOTCBUS

+ WXTCBUS

#### Additional notes

- 1. The data for "value added" and "value of shipments" that are used to allocate some of the other petroleum products are from the U.S. Department of Commerce, Census Bureau, Census of Manufactures (through 1992) or Economic Census (for 1997 forward). For individual industry series, some state-level data are withheld from publication to avoid disclosing operations of individual companies. Before 1992, the total withheld data was apportioned to the withheld states on the basis of those states' proportional values in the previous census. For 1992 forward, the total withheld value was apportioned to states with withheld data in proportion to the number of employees in that industry in each state.
- 2. In 1982, all respondents to the Census of Manufactures survey were requested to report their inventories at cost or market before accounting adjustments for "last in, first out" cost. This is a change from prior years in which respondents were permitted to value their inventories by using any generally accepted accounting valuation method. So, data for value added by manufacture after 1982 are not comparable to the prior years' data.

# **Petroleum aggregates**

The State Energy Data System (SEDS) estimates total petroleum product consumption by sector as the sum of all individual products by sector. Table TN4.1 indicates which petroleum products are consumed in each sector. SEDS describes how it estimates consumption of each individual petroleum product in the subsections that proceed this one.

### **Residential sector**

Petroleum products consumed by the residential sector are: distillate fuel oil (DF); kerosene (KS); and hydrocarbon gas liquids (HL). For the residential sector, the state and U.S. totals in physical units are:

PARCPZZ = DFRCPZZ + HLRCPZZ + KSRCPZZ

PARCPUS =  $\Sigma$ PARCPZZ

State and U.S. totals in Btu are:

PARCBZZ = DFRCBZZ + HLRCBZZ + KSRCBZZ

PARCBUS =  $\Sigma$ PARCBZZ

### **Commercial sector**

Petroleum products consumed by the commercial sector are: distillate fuel oil (DF); kerosene (KS); hydrocarbon gas liquids (HL); motor gasoline (MG); and residual fuel oil (RF). In physical units, the state and the U.S. totals for the commercial sector are:

PACCPZZ = DFCCPZZ + HLCCPZZ + KSCCPZZ + MGCCPZZ

+ PCCCPZZ + RFCCPZZ

PACCPUS =  $\Sigma$ PACCPZZ

State and U.S. totals in Btu are:

PACCBZZ = DFCCBZZ + HLCCBZZ + KSCCBZZ + MGCCBZZ

+ PCCCBZZ + RFCCBZZ

PACCBUS =  $\Sigma$ PACCBZZ

### **Industrial sector**

Petroleum products consumed by the industrial sector are: asphalt and road oil (AR); distillate fuel oil (DF); kerosene (KS); hydrocarbon gas liquids (HL); lubricants (LU); motor gasoline (MG); petroleum coke (PC); residual fuel oil (RF); and the 11 products that are already summed in

Ε

P

the "other petroleum products" (OP) subtotal. The state and U.S. total estimates in physical units are:

PAICPZZ = ARICPZZ + DFICPZZ + HLICPZZ + KSICPZZ +

LUICPZZ + MGICPZZ + OPICPZZ + PCICPZZ +

RFICPZZ

PAICPUS =  $\Sigma$ PAICPZZ

State and U.S. totals in Btu are:

PAICBZZ = ARICBZZ + DFICBZZ + HLICBZZ + KSICBZZ +

LUICBZZ + MGICBZZ + OPICBZZ + PCICBZZ +

RFICBZZ

PAICBUS =  $\Sigma$ PAICBZZ

# **Transportation sector**

Petroleum products consumed by the transportation sector are: aviation gasoline (AV); distillate fuel oil (DF); jet fuel (JF); hydrocarbon gas liquids (HL); lubricants (LU); motor gasoline (MG); residual fuel oil (RF); and the other petroleum biofuels product supplied already summed in the "other petroleum products" (OP) subtotal. The U.S.-total is not equal to the sum of the states. The state and U.S. totals in physical units are:

PAACPZZ = AVACPZZ + DFACPZZ + HLACPZZ + JFACPZZ +

LUACPZZ + MGACPZZ + OPACPZZ + RFACPZZ

PAACPUS = AVACPUS + DFACPUS + HLACPUS + JFACPUS +

LUACPUS + MGACPUS + OPACPUS + RFACPUS

State and U.S. totals in Btu are:

PAACBZZ = PAACBZZ = AVACBZZ + DFACBZZ + HLACBZZ +

JFACBZZ + LUACBZZ + MGACBZZ + OPACBZZ +

**RFACBZZ** 

PAACBUS = PAACBUS = AVACBUS + DFACBUS + HLACBUS

+ JFACBUS + LUACBUS + MGACBUS +

OPACBUS + RFACBUS

# **Electric power sector**

Petroleum products consumed by the electric power sector are: distillate fuel oil (DF), jet fuel (JF), petroleum coke (PC), and residual fuel oil (RF). In physical units, the state and U.S. totals are:

PAEIPZZ = DFEIPZZ + JFEUPZZ + PCEIPZZ + RFEIPZZ

PAEIPUS =  $\Sigma$ PAEIPZZ

State and U.S. totals in Btu are:

PAEIBZZ = DFEIBZZ + JFEUBZZ + PCEIBZZ + RFEIBZZ

PAEIBUS =  $\Sigma$ PAEIBZZ

# **Total consumption of petroleum products**

Total consumption of all petroleum products is the sum of all of the individual product totals. The U.S.-total is not equal to the sum of the states. The state and U.S. physical unit totals are:

PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + HLTCPZZ +

JFTCPZZ + KSTCPZZ + LUTCPZZ + MGTCPZZ +

OPTCPZZ + PCTCPZZ + RFTCPZZ

PATCPUS = ARTCPUS + AVTCPUS + DFTCPUS + HLTCPUS +

JFTCPUS + KSTCPUS + LUTCPUS + MGTCPUS

+ OPTCPUS + PCTCPUS + RFTCPUS

State and U.S. totals in Btu are:

PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + HLTCBZZ +

JFTCBZZ + KSTCBZZ + LUTCBZZ + MGTCBZZ +

OPTCBZZ + PCTCBZZ + RFTCBZZ

PATCBUS =  $\Sigma$ PATCBZZ

# Total consumption of petroleum products per capita

SEDS calculates total consumption of all petroleum products per capita by dividing total petroleum product consumption by resident population ("TPOPP"). See energy indicators technical notes at http://www.eia.gov/state/seds/seds-technical-notes-complete.php.

SEDS calculates estimated total consumption of petroleum products per capita for each state and the United States, in barrels, (PATPP) as:

PATPP = PATCP / TPOPP

SEDS calculates estimated total consumption of petroleum products per capita for each state and the United States, in million Btu, (PATPB) as:

PATPB = PATCB / TPOPP

# **Petroleum excluding biofuels**

EIA's petroleum data usually include the volumes of biofuels blended in. SEDS estimates state-level consumption of fuel ethanol, biodiesel, and renewable diesel that are likely consumed with motor gasoline (ethanol) and distillate fuel oil (biodiesel and renewable diesel). To assist data users in the analysis of "pure" fossil fuels versus renewable energy consumption, SEDS calculates data series for, "total petroleum excluding biofuels" (PM), for each state and the United States by sector. The SEDS variables are:

PMACB	=	all petroleum products, excluding biofuels, consumed			
		by the transportation sector, in million Btu;			
D1400D					

PMCCB = all petroleum products, excluding biofuels, consumed by the commercial sector, in million Btu;

PMICB = all petroleum products, excluding biofuels, consumed by the industrial sector, in million Btu; and

PMTCB = all petroleum products, excluding biofuels, total consumption, in million Btu.

The SEDS formulas are:

PMACB	=	AVACB + DMACB + HLACB + JFACB + LUACB +
		MMACB + RFACB

PMCCB = DFCCB + HLCCB + KSCCB + MMCCB + PCCCB

+ RFCCB

PMICB = ARICB + DFICB + HLICB + KSICB + LUICB +

MMICB + OPICB + PCICB + RFICB

PMTCB = ARTCB + AVTCB + DMTCB + HLTCB + JFTCB + KSTCB + LUTCB + MMTCB + OMTCB + PCTCB +

**RFTCB** 

SEDS only displays the *total petroleum excluding biofuels* data series in tables that show primary energy consumption by source. For consumption by end-use sector, total petroleum estimates include the volumes of biofuels blended with finished petroleum products, as they are consumed by the end users and published in EIA's petroleum product supplied data series.

### Additional calculations

100

SEDS combines a few petroleum products displayed in the "Other petroleum" column in tables on total energy consumption and industrial sector energy consumption. They include: asphalt and road oil, aviation gasoline (total energy only), kerosene, lubricants, petroleum coke, and

the 11 industrial petroleum products described in the "other petroleum products" section of the technical notes. SEDS calculates the variables in physical units and Btu, for each state and the United States:

```
P1ICB = ARICB + KSICB + LUICB + OPICB + PCICB
P1ICP = ARICP + KSICP + LUICP + OPICP + PCICP
P1TCB = ARTCB + AVTCB + KSTCB + LUTCB + OPTCB + PCTCB
P1TCP = ARTCP + AVTCP + KSTCP + LUTCP + OPTCP + PCTCP
```

The U.S. Energy Information Administration's (EIA) *Monthly Energy Review* publishes conversion factors for all petroleum products consumed by each sector, as well as for the combined residential and commercial sectors.

PAACKUS = PAACBUS / PAACPUS PACCKUS = PACCBUS / PACCPUS PAEIKUS = PAEIBUS / PAEIPUS PAICKUS = PAICBUS / PAICPUS PATCKUS = PATCBUS / PATCPUS

SEDS calculates consumption of all petroleum products by the combined residential and commercial sectors, in physical units, in Btu, and the average conversion factor as:

PAHCBUS = PARCBUS + PACCBUS PAHCKUS = PAHCBUS / PAHCPUS PAHCPUS = PARCPUS + PACCPUS

# Section 5. Renewable energy

The renewable energy sources included in the State Energy Data System (SEDS) are biodiesel, fuel ethanol, geothermal energy, hydroelectric power, renewable diesel, solar energy, wind energy, wood, biomass waste, and other biofuels. SEDS also calculates aggregates for losses and co-products of biofuels, total biofuels, total biomass, and total renewable energy.

### **Biodiesel**

Biodiesel is a renewable fuel that can be made from vegetable oils, animal fats, and recycled grease. Biodiesel can be used with, or as a substitute for, petroleum-derived diesel or distillate fuel oil in vehicles or any equipment that operates with diesel fuel. While other sectors consume some smaller amounts of biodiesel, the State Energy Data System (SEDS) assigns all biodiesel consumption to the transportation sector because there is not enough information to allocate consumption to the other sectors. For 2001 forward, SEDS estimates biodiesel consumption by state, as shown in the tables on primary energy consumption by source.

### Physical units

SEDS identifies the biodiesel consumption data series in physical units using the following names ("ZZ" in the variable name represents the two-letter state code that differs for each state):

BDTCPUS = biodiesel total consumption in the United States, in thousand barrels: and

BDTCPZZ = biodiesel total consumption by state, in thousand barrels.

For 2001 forward, the U.S. Energy Information Administration's (EIA) *Monthly Energy Review* estimates U.S. total biodiesel consumption. For 2011 forward, EIA develops internal estimates of biodiesel consumption by Petroleum Administration for Defense District (PADD) region using PADD-level biodiesel production, net receipts to refineries, net imports, and stock change.

For 2001 through 2010, SEDS calculates state-level biodiesel

consumption estimates using the 2011 state shares applied to the U.S. total biodiesel consumption from EIA's *Monthly Energy Review* for each year.

For 2011 forward, SEDS calculates the state estimates using EIA's U.S. total biodiesel consumption, internal EIA PADD-level estimates, state-level reported data, and state-level biodiesel blend ratio mandates.

Some states self-report annual biodiesel consumption in their state, and SEDS assumes those values for those states. State reported biodiesel consumption is available from California's Air Resources Board, *Low Carbon Fuel Standard Reporting Tool Quarterly Summaries* (2011 forward), Hawaii's Department of Business, Economic Development & Tourism Data Warehouse (2011 forward, for utility use), lowa's Department of Revenue, *Retailers Fuel Gallons Annual Report* and the lowa Renewable Fuels Association (2011 forward), Montana's Energy Office (2016 forward), New Mexico's Department of Agriculture (2016 to 2021), and Oregon's Data for the Clean Fuel Program (2016 forward). For 2022, the New Mexico data are not available, so SEDS uses the 2021 reported blend ratio.

Some states have mandates that require a minimum ratio of biodiesel to be blended with diesel or distillate fuel oil. Some states provide incentives for the use of biodiesel. SEDS makes explicit assumptions for the following states: Hawaii (5% of distillate fuel oil consumption in the transportation sector for 2016 forward), Illinois (8% for 2011 forward), Minnesota (5% from 2011 to 2013, 6.3% in 2014, 7.5% from 2015 to 2017, 10% in 2018, and 12.1% for 2019 forward), New York (2% of distillate fuel oil consumption in the transportation sector for 2011 forward; 2% of distillate fuel oil consumption in all other sectors from 2011 through 2016, 3.5% in 2017 and 2018, and 4.1% for 2019 forward), Oregon (2% to 4.2% from 2011 to 2015), Pennsylvania (a minimum of 2% for 2011 forward), and Washington (2% for 2011 forward).

For the rest of the states, SEDS estimates biodiesel consumption using the following data and methodology:

- SEDS allocates U.S. biodiesel consumption (BDTCPUS) reported in EIA's *Monthly Energy Review* to the corresponding PADD using internal EIA estimates.
- SEDS subtracts the biodiesel consumption reported by states

- and the estimated biodiesel consumption from the explicit assumptions mentioned above from the PADD estimates.
- SEDS allocates the remaining volume of biodiesel for each PADD to all the states without reported data in proportion to each state's distillate fuel oil consumption.

SEDS assigns all biodiesel consumption to the transportation sector (BDACP):

BDACPZZ = BDTCPZZ $BDACPUS = \Sigma BDACPZZ$ 

### British thermal units (Btu)

SEDS develops Btu biodiesel consumption estimates as the product of the estimated physical unit consumption by EIA's biodiesel Btu conversion factor (5.359 million Btu per barrel). Btu consumption by state and for the United States are:

BDACBZZ = BDACPZZ \* 5.359

BDACBUS = ΣBDACBZZ BDTCBZZ = BDACBZZ BDTCBUS = ΣBDTCBZZ

### Energy losses and co-products from biodiesel production

Beginning in 2001, SEDS includes energy losses and co-products from the production of biodiesel into state and U.S. industrial sector energy consumption (TEICBZZ and TEICBUS). This concept is defined as the difference between the heat content of the biomass inputs to the production of biodiesel and the heat content of the biodiesel produced. SEDS allocates energy losses for the United States to the states according to the biodiesel production share for each state. SEDS adds the energy losses for each state and the United States to state and U.S. industrial and total energy consumption.

BDLCBUS = energy losses and co-products from the production of biodiesel for the United States, in billion Btu:

BDPRBUS = production of biodiesel for the United States, in billion

Btu; and

BDPRBZZ = production of biodiesel by state, in billion Btu.

BDLCBZZ = (BDPRBZZ/BDPRBUS) \* BDLCBUS

Because of differences in data sources and estimation methods, the ratio of biodiesel consumption to distillate fuel oil consumption should not be interpreted as the average biodiesel blend ratio.

#### Data sources

BDLCBUS — Losses and co-products from the production of Biodiesel in the United States.

- 1960 through 2000: No data available. EIA assumes the values to be zero.
- 2001 forward: EIA, Monthly Energy Review, Table 10.4a.

BDPRBUS — Production of biodiesel in the United States.

- 1960 through 2000: No data available. EIA assumes the values to be zero.
- 2001 forward: EIA, Monthly Energy Review, Table 10.4a.

BDPRBZZ — Production of biodiesel by state.

- 1960 through 2000: No data available. EIA assumes the values to be zero.
- 2001 forward: EIA, State Energy Data System, production estimates.

BDTCPUS — Biodiesel total consumption in the United States.

- 1960 through 2000: No data available. EIA assumes the values to be zero.
- 2001 forward: EIA, Monthly Energy Review, Table 10.4a.

### **Fuel ethanol**

The State Energy Data System (SEDS) estimates annual fuel ethanol consumption by state for the transportation, commercial, and industrial sectors. Fuel ethanol is used as a gasoline octane enhancer and oxygenate. A small amount of fuel ethanol is used as an alternative fuel, such as E85. Fuel ethanol is usually produced from grain and crops with high starch and sugar content (mostly corn), or from breaking down cellulose in trees, grasses, and agricultural residues. It can also be produced chemically from ethylene. For 1981 forward, SEDS shows fuel ethanol estimates in the tables on primary energy consumption by source.

SEDS develops the U.S. total fuel ethanol consumption for 1981 forward using various U.S. Energy Information Administration (EIA) annual data series. For 1981 through 1992, SEDS uses data from EIA's *Estimates of U.S. Biofuels Consumption 1990* and *Estimates of U.S. Biomass Energy Consumption 1992*. For 1993 through 2004, it is the sum of fuel ethanol refinery inputs and 10% of oxygenated finished motor gasoline field production. For 2005 through 2008, it is the sum of fuel ethanol refinery and blender net inputs, finished motor gasoline adjustments, and motor gasoline blending components adjustments. For 2009 forward, the U.S. total ethanol consumption is equal to fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments. The fuel ethanol volume in physical units is denatured fuel ethanol, which includes a small amount of denaturant added to the fuel ethanol to make it unfit for human consumption.

Through 2004, SEDS allocates the U.S. total to the states using data series on gasohol or fuel ethanol published by the U.S. Department of Transportation, Federal Highway Administration (FHWA).

For 2005 through 2009, SEDS calculates the state estimates using the following EIA data series and assumptions:

- estimated use of fuel ethanol by Petroleum Administration for Defense (PAD) Refining District
- prime supplier sales of conventional (including oxygenated) gasoline and reformulated gasoline by state
- production of conventional and reformulated gasoline, total and blended with alcohol, by PAD Refining District
- a standard ethanol-to-motor gasoline ratio of 10% for all states except Alaska (0%), California (5.7%), and Minnesota (12%)

First, SEDS estimates fuel ethanol consumption by PAD Refining District

by adding fuel ethanol used as refinery and blender net inputs and an adjustment item from the supply and disposition of petroleum and other liquids. Next, SEDS calculates the shares of both conventional and reformulated gasoline blended with fuel ethanol for each Refining District. Then, SEDS calculates a set of preliminary state estimates for fuel ethanol blended into motor gasoline as the product of the prime supplier sales for both conventional and reformulated gasoline with the corresponding share of gasoline blended with alcohol and the ethanol-to-gasoline ratio, and then sums them together for each state. Finally, SEDS scales the preliminary state-level fuel ethanol estimates to the fuel ethanol use for each Refining District.

For 2010 forward, SEDS uses an updated estimation method. Data series and assumptions used in the calculation include:

- U.S. fuel ethanol consumption
- motor gasoline consumption by state from SEDS
- prime supplier sales of conventional gasoline and reformulated gasoline by state (2010–2021) or unpublished shipments from refineries and terminals of finished conventional and reformulated gasoline by state (2022 forward)
- production of conventional and reformulated gasoline, total and blended with fuel ethanol, by PAD Refining District
- inter-PADD movements of conventional gasoline
- net exports of conventional gasoline by PAD Refining District
- a standard ethanol-to-motor gasoline ratio of 10% for all states except Alaska (0%), lowa (12%), and Minnesota (12%)

First, SEDS allocates state-level motor gasoline consumption to conventional and reformulated gasoline consumption using the corresponding prime supplier sales ratios (through 2021) or the corresponding finished gasoline shipment ratios from refineries and terminals (2022 forward). Next, SEDS calculates the shares of both conventional and reformulated gasoline blended with fuel ethanol for each Refining District. To better account for the amount of conventional gasoline in the denominator, SEDS adjusts the share by inter-PADD movements and net exports. Then, SEDS calculates a set of preliminary fuel ethanol consumption estimates as the product of the state-level conventional and reformulated gasoline consumption estimates by the corresponding Refining District-level shares of gasoline blended with fuel ethanol as well as by the ethanol-to-gasoline ratio. SEDS sums the preliminary conventional and reformulated ethanol uses together for each state. Finally, SEDS scales the preliminary estimates to sum to the U.S. fuel ethanol total consumption.

The SEDS fuel ethanol data series are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

ENTCPUS = fuel ethanol total consumption in the United States, in thousand barrels;

ENTCBUS = fuel ethanol total consumption in the United States, in billion Btu: and

ENTRPZZ = fuel ethanol blended into motor gasoline (1993 forward) or total gasohol sales (1981 through 1992) by states, in thousand gallons.

The U.S. total of the state series, ENTRPUS, is the sum of the state data, ENTRPZZ. The U.S. value, ENTCPUS, is allocated to the states in proportion to the state estimates, ENTRPZZ:

ENTRPUS =  $\Sigma$ ENTRPZZ

ENTCPZZ = (ENTRPZZ / ENTRPUS) \* ENTCPUS

SEDS allocates fuel ethanol total consumption by state, ENTCPZZ, to the commercial, industrial, and transportation sectors according to the motor gasoline consumption share for each sector. See the "Additional note" at the end of this section about motor gasoline source data breaks in series.

ENACPZZ = (MGACPZZ / MGTCPZZ) \* ENTCPZZ ENCCPZZ = (MGCCPZZ / MGTCPZZ) \* ENTCPZZ ENICPZZ = (MGICPZZ / MGTCPZZ) \* ENTCPZZ

The U.S. consumption estimates for the three sectors are the sum of the states' values.

SEDS calculates fuel ethanol total Btu consumption by state, ENTCBZZ, as the product of U.S. fuel ethanol total Btu consumption with the state share of fuel ethanol consumption in physical units:

ENTCBZZ = (ENTCPZZ / ENTCPUS) \* ENTCBUS

SEDS allocates fuel ethanol total Btu consumption by state to the commercial, industrial, and transportation sectors according to the motor gasoline consumption share for each sector:

ENACBZZ = (MGACPZZ / MGTCPZZ) \* ENTCBZZ ENCCBZZ = (MGCCPZZ / MGTCPZZ) \* ENTCBZZ ENICBZZ = (MGICPZZ / MGTCPZZ) \* ENTCBZZ

ENACBUS =  $\Sigma$ ENACBZZ ENCCBUS =  $\Sigma$ ENCCBZZ ENICBUS =  $\Sigma$ ENICBZZ SEDS calculates the annual U.S. fuel ethanol Btu conversion factor as the U.S. fuel ethanol total Btu consumption divided by the fuel ethanol total consumption in physical units:

ENTCKUS = ENTCBUS / ENTCPUS

### Fuel ethanol excluding denaturant

Fuel ethanol contains a small amount of denaturant, which is added to make the finished product unsuitable for human consumption. Fuel ethanol denaturant is typically natural gasoline (pentanes plus) or conventional gasoline. These volumes are already accounted for under petroleum. Therefore, to avoid double-counting, and to separately identify the renewable content of fuel ethanol, EIA estimates the Btu content of fuel ethanol excluding denaturant consumed by the United States. SEDS allocates fuel ethanol excluding denaturant to the states using the states shares of fuel ethanol consumption, as follows:

EMTCBUS = fuel ethanol, excluding denaturant, consumed in the United States. in billion Btu.

EMTCBZZ = (ENTCBZZ / ENTCBUS) \* EMTCBUS

Similarly, SEDS allocates fuel ethanol excluding denaturant to the commercial, industrial, and transportation sectors according to the motor gasoline consumption share for each sector:

EMACBZZ = (MGACPZZ / MGTCPZZ) \* EMTCBZZ EMCCBZZ = (MGCCPZZ / MGTCPZZ) \* EMTCBZZ EMICBZZ = (MGICPZZ / MGTCPZZ) \* EMTCBZZ

 $EMACBUS = \Sigma EMACBZZ$   $EMCCBUS = \Sigma EMCCBZZ$  $EMICBUS = \Sigma EMICBZZ$ 

### Energy losses and co-products from fuel ethanol production

Beginning in 1981, SEDS estimates energy losses and co-products from the production of fuel ethanol into state and U.S. industrial sector energy consumption (TEICBZZ and TEICBUS). SEDS defines this concept as the difference between the heat content of the biomass inputs to the production of fuel ethanol and the heat content of the fuel ethanol produced. SEDS allocates U.S. total energy losses to the states according to the fuel ethanol production share for each state. SEDS then adds energy losses for each state and the Unites States to industrial sector and total energy consumption.

EMLCBUS = energy losses and co-products from the production of

fuel ethanol for the United States, in billion Btu;

EMPRBUS = production of fuel ethanol, excluding denaturant, for

the United States, in billion Btu; and

EMPRBZZ = production of fuel ethanol, excluding denaturant, by

state, in billion Btu.

EMLCBZZ = (EMPRBZZ / EMPRBUS) \* EMLCBUS

#### Additional notes

- 1. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption to motor gasoline consumption should not be interpreted as the average ethanol blend rate.
- 2. Fuel ethanol data blended into motor gasoline (ENTRPZZ) are published in FHWA *Highway Statistics* from 1993 through 2001, 2003, and 2004.
  - In 2002, fuel ethanol blended into motor gasoline is not available from *Highway Statistics*. The ratio of each state's fuel ethanol in gasohol to total gasohol consumption is calculated for 2001 and 2003. The two ratios for each state are averaged and the average is applied to each state's 2002 total gasohol consumption to derive the amount of fuel ethanol consumed in gasohol in 2002. Fuel ethanol and gasohol data for Florida, Massachusetts, and Rhode Island are available for only 2001 or 2003; in these instances, the ratio of only the available year is used.
- 3. In 2008, the Federal Highway Administration updated its model to estimate non-highway use of motor gasoline. The new model, developed by the U.S. Department of Energy Oak Ridge National Lab, better accounts for different state-reported tax refund practices.

For example, some states report motor gasoline refunds by category while other states do not report any refunds for non-highway use of motor gasoline. The Federal Highway Administration uses state-reported data for states that offer refunds by category and modeled data for the other states that do not have usable reported data.

In 2015, the Federal Highway Administration revised its model to estimate non-highway use of motor gasoline. (See Off-Highway and Public-Use Gasoline Consumption Estimation Models used in the Federal Highway Administration.) Estimates from 2015 forward are not compatible with data before 2015.

In 2022, the Federal Highway Administration revised its model

to estimate non-highway use of motor gasoline. In part, the new model uses volume estimates by equipment type from the U.S. Environmental Protection Agency's Motor Vehicle Emission Simulator (MOVES) for non-highway uses of motor gasoline-powered equipment, such as saws for logging. Estimates from 2022 forward are not compatible with the data before 2022.

#### Data sources

EMLCBUS — Energy losses and co-products from the production of fuel ethanol for the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Monthly Energy Review*, Table 10.3.

EMPRBUS — Production of fuel ethanol excluding denaturant for the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Monthly Energy Review*, Table 10.3.

EMPRBZZ — Production of fuel ethanol excluding denaturant by state.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, State Energy Data System, production estimates.

EMTCBUS — Fuel ethanol excluding denaturant consumed in the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Monthly Energy Review*, Table 10.3.

ENTCBUS — Fuel ethanol including denaturant consumed in the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Monthly Energy Review*, Table 10.3.

ENTCPUS — Fuel ethanol, including denaturant, consumed in the

#### United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 through 1992:
  - 1981, 1984, 1987, and 1989: EIA, Estimates of U.S. Biofuels Consumption 1990. Table 10.
  - 1982 and 1983: EIA, Office of Coal, Nuclear, Electric, and Alternate Fuels estimates.
  - 1985, 1986, 1988, and 1991: Values interpolated.
  - 1990 and 1992: EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.
- 1993 through 2004: EIA estimates based on data in EIA's Petroleum Supply Annual, (PSA) Tables 2 and 16. Equal to the sum of 10% of the "Field Production" of "Oxygenated Finished Motor Gasoline" from PSA Table 2 and the "Refinery Input of Fuel Ethanol" from PSA Table 16.
- 2005 through 2008: EIA estimates based on data in the EIA PSA, Tables 1 and 15. Equal to the sum of motor gasoline blending components adjustments and finished motor gasoline adjustments from PSA, Table 1, and fuel ethanol refinery and blender net inputs from PSA, Table 15.
- 2009 forward: EIA estimates based on data in the EIA PSA, Table 1, "Refinery and Blender Net Inputs" minus "Adjustments" for "Fuel Ethanol."

### ENTRPZZ — Fuel ethanol blended into motor gasoline by state.

- 1960 through 1980: Values are set to be zero.
- 1981 through 1992: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, Summary to 1995, Table MF-233GLA.
- 1993 through 1995: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, Summary to 1995, Table MF-233E, column titled "Total Ethanol Used in Gasohol."
- 1996 through 2001, 2003, and 2004: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, Table MF-33E, column titled "Total Ethanol Used in Gasohol."
- 2002: EIA estimates based on the 2001 and 2003 data from Highway Statistics. For an explanation of the estimation methodology, see the "Additional Notes" on page 105.

- 2005 through 2009: EIA estimates based on Petroleum & Other Liquids data website, Prime Supplier Sales Volumes, Motor Gasoline http://www.eia.gov/dnav/pet/pet cons prim a epm0 p00 mgalpd a.htm, Refinery and Blender Net Production for the finished motor gasoline products—http://www.eia.gov/dnav/pet/ pet pnp refp a epm0f ypr mbbl a.htm, supply of fuel ethanol http://www.eia.gov/dnav/pet/pet sum snd a EPOOXE mbbl a cur.htm. See explanation of estimation methodology on page 104.
- 2010 through 2021: EIA estimates based on Petroleum & Other Liquids data website, Prime Supplier Sales Volumes, Motor Gasoline http://www.eia.gov/dnav/pet/pet cons prim a epm0 p00 mgalpd a.htm, Refinery and Blender Net Production for the finished motor gasoline products—http://www.eia.gov/dnav/ pet/pet pnp refp a epm0f vpr mbbl a.htm, movements conventional gasoline between PAD Districts-http://www.eia. gov/dnav/pet/pet move ptb a EPM0C TNR mbbl a.htm, unpublished imports and exports of conventional gasoline by Refining District. See explanation of estimation methodology on page 103.
- 2022 forward: EIA estimates based on; unpublished EIA-810 "Monthly Refinery Report" and EIA-815 "Monthly Bulk Terminal Report" annual shipments from refineries and terminals of finished conventional and reformulated gasoline by state; Refinery and Blender Net Production for the finished motor gasoline products—http://www.eia.gov/dnav/pet/pet\_pnp\_refp\_a\_epm0f vpr mbbl a.htm; movements of conventional gasoline between Districts—http://www.eia.gov/dnav/pet/pet move ptb a PAD EPMOC TNR mbbl a.htm; and unpublished imports and exports of conventional gasoline by Refining District. See explanation of estimation methodology on page 103.

# **Geothermal energy**

The State Energy Data System (SEDS) estimates electricity generated from geothermal energy for all years. Before 1989, SEDS estimates geothermal energy input at electric utilities only; for 1989 forward, SEDS also includes geothermal energy input for independent power producers in the electric power sector. For 2018 forward, SEDS also covers input for utility-scale commercial CHP and electricity-only facilities. The SEDS geothermal data series are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

GEEGPZZ = geothermal electricity net generation in the electric power sector by state, in million kilowatthours, and

GEC5PZZ = geothermal electricity net generation at utility-scale commercial CHP and electricity-only facilities by state, in million kilowatthours.

Geothermal energy is also used as direct heat or from heat pumps in the residential, commercial (excluding CHP and electricity-only facilities), and industrial sectors. The Oregon Institute of Technology Geo-Heat Center developed national estimates of geothermal energy consumption for these three end-use sectors for 1989 through 2011, which also provided state estimates for selected years (see additional notes on page 107). For 2012 forward, estimates are no longer available from the Geo-Heat Center. SEDS allocates the U.S. consumption for these series, estimated in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review*, to the states using each state's average share of U.S. geothermal energy consumption for 2009 through 2011.

SEDS identifies these data series by the following names ("ZZ" in the variable name represents the two-letter state code that differs for each state). For the residential and industrial sectors, they represent all geothermal energy consumed:

GEC4BZZ = geothermal energy consumed as direct heat or from heat pumps in the commercial sector by state, in billion British thermal units (Btu);

GEICBZZ = geothermal energy consumed by the industrial sector by state, in billion Btu; and

GERCBZZ = geothermal energy consumed by the residential sector by state, in billion Btu.

The U.S. totals for the state-level series are the sums of the state data:

GEEGPUS =  $\Sigma$ GEEGPZZ GEC5PUS =  $\Sigma$ GEC5PZZ GEC4BUS = \( \subseteq \text{GEC4BZZ} \)
GEICBUS = \( \subseteq \text{GEICBZZ} \)
GERCBUS = \( \subseteq \text{GERCBZZ} \)

SEDS converts geothermal electricity net generation in the electric power sector and the commercial CHP and electricity-only facilities from kilowatthours (kWh) to British thermal units (Btu) using the constant heat content of electricity of 3.412 thousand Btu per kWh.

SEDS converts the values for the electric power sector in each state to Btu and the U.S. total is the sum of the state data:

GEEGBZZ = GEEGPZZ \* 3.412GEEGBUS =  $\Sigma$ GEEGBZZ

SEDS converts the values for geothermal energy consumed in the commercial CHP and electricity-only facilities in each state to Btu:

GEC5BZZ = GEC5PZZ \* 3.412

Total commercial sector consumption is the sum of geothermal consumed as direct heat or from heat pumps and in CHP and electricity-only facilities. The U.S. total is the sum of the state data.

GECCBZZ = GEC5BZZ + GEC4BZZ

GECCBUS =  $\Sigma$ GECCBZZ

The state totals for geothermal energy are the sum of the residential, commercial, and industrial sectors' use and the electric power sector's geothermal-based generation. The U.S. total is the sum of the state data.

GETCBZZ = GERCBZZ + GECCBZZ + GEICBZZ + GEEGBZZ

GETCBUS =  $\Sigma$ GETCBZZ

### Additional notes

 Consumption estimates of geothermal energy in the residential, commercial, and industrial sectors are from the Oregon Institute of Technology Geo-Heat Center. For 1989 and 1994, the state data are based on surveys of geothermal equipment producers, distributors, and installers and state energy offices. For 1998 forward, the state estimates are developed by the Geo-Heat Center from discussions with industry sources.

SEDS uses the state data for 1989, 1994, and 1998 to estimate the state values for intervening years. States with the same value in

- two survey years are assigned that value for each intervening year. For states with increases or decreases in the survey data, SEDS allocates the difference evenly over the intervening years. If a state went from zero to a value or from a value to zero, SEDS assigns it a zero in the intervening years. SEDS sums the state data for each intervening year and adjusts states with increasing or decreasing values until the U.S. total equals the U.S. total estimated by the Oregon Institute of Technology Geo-Heat Center.
- 2. During the SEDS 2022 data cycle, EIA updated the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (solar, wind, hydroelectric, and geothermal) to Btu using the constant conversion of 3,412 Btu per kWh (the heat content of electricity). This method is called the *captured energy approach*. Before the SEDS 2022 cycle, EIA converted noncombustible renewable energy sources to Btu using the annual U.S. average heat content of fossil fuels consumed at steam-electric power plants (FFETKUS) as a conversion factor. That method is called the fossil fuel equivalency approach. The captured energy approach is more consistent with international energy statistics standards from the United Nations than the fossil fuel equivalency approach. See EIA's Monthly Energy Review Appendix E for more information. The annual values for FFETKUS are shown in the consumption technical notes, Appendix B, Table B1, http://www.eia.gov/state/seds/seds-technical-notes-complete. php and in the SEDS thermal conversion factors time series data files http://www.eia.gov/state/seds/sep use/total/csv/use convfac. CSV.

#### Data sources

GEC4BUS — Geothermal energy as direct heat or from heat pumps in the commercial sector in the United States.

• 2012 forward: EIA, *Monthly Energy Review*, Table 10.2a and unpublished data.

GEC4BZZ — Geothermal energy consumed as direct heat or from heat pumps in the commercial sector by state.

- 1960 through 1988: No data available. Values assumed to be zero.
- 1989: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1990 through 1993: U.S. totals are estimates from the Oregon

Institute of Technology Geo-Heat Center, unpublished tables. State data for 1989 and 1994 are used to estimate state values for the intervening years. For an explanation of the estimation methodology, see the "Additional Note" on page 107.

- 1994: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1995 through 1997: U.S. totals are from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1994 and 1998 are used to estimate state values for the intervening years. For an explanation of the estimation methodology, see the "Additional Note" on page 107.
- 1998 through 2011: Oregon Institute of Technology Geo-Heat Center, unpublished tables based on informal surveys and estimations.
- 2012 forward: Estimated by EIA, based on Oregon Institute of Technology Geo-Heat Center data.

GEC5PZZ — Geothermal electricity net generation at utility-scale commercial CHP and electricity-only facilities by state.

- 1960 through 2017: Values are assumed to be zero.
- 2018 forward: EIA, Form EIA-923, "Power Plant Operations Report."

GEEGPZZ — Geothermal electricity net generation in the electric power sector by state.

• 1960 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

GEICBUS — Geothermal energy consumed by the industrial sector in the United States.

• 2012 forward: EIA, *Monthly Energy Review*, Table 10.2b.

GEICBZZ — Geothermal energy consumed by the industrial sector by state.

- 1960 through 1988: No data available. Values assumed to be zero.
- 1989: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1990 through 1993: U.S. totals are estimates from the Oregon

- Institute of Technology Geo-Heat Center, unpublished tables. State data for 1989 and 1994 are used to estimate state values for the intervening years. For an explanation of the estimation methodology, see the "Additional Note" on page 107.
- 1994: Oregon Institute of Technology Geo-Heat Center, unpublished tables, (April 1999) based on a survey.
- 1995 through 1997: U.S. totals are from the Oregon Institute
  of Technology Geo-Heat Center, unpublished tables. State
  data for 1994 and 1998 are used to estimate state values for
  the intervening years. For an explanation of the estimation
  methodology, see the "Additional Note" on page 107.
- 1998 through 2011: Oregon Institute of Technology Geo-Heat Center, unpublished tables based on informal surveys and estimations.
- 2012 forward: Estimated by EIA, based on Oregon Institute of Technology Geo-Heat Center data.

GERCBUS — Geothermal energy consumed by the residential sector in the United States.

2012 forward: EIA, Monthly Energy Review, Table 10.2a.

GERCBZZ — Geothermal energy consumed by the residential sector by state.

- 1960 through 1988: No data available. Values assumed to be zero.
- 1989: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1990 through 1993: U.S. totals are estimates from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1989 and 1994 are used to estimate state values for the intervening years. For an explanation of the estimation methodology, see the "Additional Note" on page 107.
- 1994: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1995 through 1997: U.S. totals are from the Oregon Institute
  of Technology Geo-Heat Center, unpublished tables. State
  data for 1994 and 1998 are used to estimate state values for
  the intervening years. For an explanation of the estimation
  methodology, see the "Additional Note" on page 107.

- 1998 through 2011: Oregon Institute of Technology Geo-Heat Center, unpublished tables based on informal surveys and estimations.
- 2012 forward: Estimated by EIA, based on Oregon Institute of Technology Geo-Heat Center data.

# **Hydroelectric power**

The State Energy Data System (SEDS) estimates electricity generated from hydropower in the industrial and electric power sectors for 1960 forward, and in the commercial sector for 1989 forward. In the electric power sector, there are two types of hydroelectricity: conventional hydroelectricity and pumped-storage hydroelectricity. Conventional hydroelectricity uses falling water to drive turbines to produce electricity. Pumped-storage hydroelectricity is generated by releasing water that has been pumped into an elevated storage reservoir during off-peak periods to drive the turbines during times of peak demand. Electricity produced from pumped storage, when it can be identified separately, is not included in energy consumption estimates because the energy that was used to pump the water is already accounted for. The SEDS hydroelectricity data series are ("ZZ" in the name represents the two-letter state code that differs for each state):

HVEGPZZ = conventional hydroelectricity net generation in the electric power sector by state, in million kilowatthours;

HVC5PZZ = conventional hydroelectricity net generation at commercial CHP and electricity-only facilities by

state, in million kilowatthours; and

HVI5PZZ = conventional hydroelectricity net generation at industrial CHP and electricity-only facilities by state,

in million kilowatthours.

The U.S. value for each of the series is the sum of the state data.

SEDS assumes total use of hydroelectricity in the commercial, industrial, and electric power sectors to be the electricity generated by conventional hydroelectricity. The U.S. total for each sector is the sum of the state values:

HYCCPZZ = HVC5PZZ HYCCPUS = ΣHYCCPZZ HYICPZZ = HVI5PZZ HYICPUS = ΣHYICPZZ HYEGPZZ = HVEGPZZ HYEGPUS = ΣHYEGPZZ

SEDS converts hydroelectricity net generation from kilowatthours (kWh) to British thermal units (Btu) using the constant heat content of electricity of 3.412 thousand Btu per kWh.

HYCCBZZ = HYCCPZZ \* 3.412

HYICBZZ = HYICPZZ \* 3.412 HYEGBZZ = HYEGPZZ \* 3.412

The U.S. value for each of the series is the sum of the state data. Total hydroelectricity consumption for each state is the sum of the commercial, industrial, and electric power sectors' generation.

HYTCPZZ = HYCCPZZ + HYICPZZ + HYEGPZZ

 $HYTCPUS = \Sigma HYTCPZZ$ 

HYTCBZZ = HYCCBZZ + HYICBZZ + HYEGBZZ

 $HYTCBUS = \Sigma HYTCBZZ$ 

#### Additional notes

During the SEDS 2022 data cycle, EIA updated the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (solar, wind, hydroelectric, and geothermal) to Btu using the constant conversion of 3,412 Btu per kWh (the heat content of electricity). This method is called the *captured energy approach*. Before the SEDS 2022 cycle, EIA converted noncombustible renewable energy sources to Btu using the annual U.S. average heat content of fossil fuels consumed at steam-electric power plants (FFETKUS) as a conversion factor. That method is called the fossil fuel equivalency approach. The captured energy approach is more consistent with international energy statistics standards from the United Nations than the fossil fuel equivalency approach. See EIA's Monthly Energy Review Appendix E for more information. The annual values for FFETKUS are shown in the consumption technical notes, Appendix B, Table B1, http://www.eia.gov/ state/seds/seds-technical-notes-complete.php and in the SEDS thermal conversion factors time series data files http://www.eia.gov/state/seds/ sep use/total/csv/use convfac.csv.

#### Data sources

HVC5PZZ — Conventional hydroelectricity net generation at commercial CHP and electricity-only facilities by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

HVI5PZZ — Conventional hydroelectricity net generation at industrial CHP and electricity-only facilities by state.

- 1960 through 1978: Federal Power Commission, Form 4, "Monthly Power Plant Report."
- 1979 and 1980: EIA estimates based on previous years' data.
- 1981 through 1988: No data available. The 1980 data are repeated for each year.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

HVEGPZZ — Conventional hydroelectricity net generation in the electric power sector (includes pumped-storage hydroelectric power through 1989) by state.

- 1960 through 1977: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data."
- 1978 through 1980: EIA, *Energy Data Reports*, "Power Production, Fuel Consumption and Installed Capacity Data."
- 1981 through 1988: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms. The data rounded to gigawatthours are published in the following reports:
  - 1981 through 1985: EIA, Electric Power Annual 1985, Table 6.
  - 1986 and 1987: EIA, Electric Power Annual 1987, Table 18.
  - 1988: EIA, Electric Power Annual 1989, Table 14.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

### Renewable diesel

Renewable diesel is a renewable fuel that is chemically equal to petroleum diesel and can be made from nearly any biomass feedstock, including: vegetable oils, animal fats, and recycled grease. Renewable diesel is similar to biodiesel, but with important differences. Renewable diesel production uses a hydrogenation process rather than the esterification process used to produce biodiesel. Because renewable diesel is a drop-in fuel, it meets ASTM D975 specification for petroleum diesel and can be seamlessly blended, transported, and even co-processed with petroleum diesel.

Renewable diesel is most commonly used with, or as a substitute for, petroleum-derived diesel or distillate fuel oil in vehicles. While other sectors consume some smaller amounts of renewable diesel, the State Energy Data System (SEDS) assigns all renewable diesel consumption to the transportation sector because there is not enough information to allocate consumption to the other sectors. For 2001 forward, SEDS estimates renewable diesel consumption by state, as shown in the tables on primary energy consumption by source.

### Physical units

SEDS identifies the renewable diesel consumption data series in physical units using the following names ("ZZ" in the variable name represents the two-letter state code that differs for each state):

B1TCPUS = renewable diesel total consumption in the United States, in thousand barrels; and

B1TCPZZ = renewable diesel total consumption by state, in thousand barrels.

For 2011 forward, the U.S. Energy Information Administration's (EIA) *Monthly Energy Review* estimates U.S. total renewable diesel consumption.

For 2011 through 2016, SEDS assumes that 100% of U.S. renewable diesel consumption was in California, which dominated the early renewable diesel market in the United States. While some small amounts of renewable diesel consumption may have occurred in other states, there is no publicly available data for SEDS to estimate other states.

For 2017 forward, SEDS allocates U.S. total renewable diesel consumption proportionally to California, New York, and Oregon, using state-reported renewable diesel volumes. Both the California Air

Resources Board and Oregon Department of Environmental Quality's Clean Fuels Program publish quarterly renewable diesel volumes for Low Carbon Fuel Standard (LCFS) credit and deficit reporting. SEDS calculates annual shares for each state from the quarterly data. In 2018, New York City had a pilot program for renewable diesel consumption for city vehicles. SEDS incorporates the data as reported by the New York City Department of Citywide Administrative Services (DCAS). SEDS applies the state shares proportionally to EIA's U.S. total consumption to estimate the annual renewable diesel consumption in each state. While some small amounts of renewable diesel consumption may occur in other states, there is no publicly available data for SEDS to estimate other states.

SEDS assigns all renewable diesel consumption to the transportation sector (B1ACP):

B1ACPZZ = B1TCPZZ B1ACPUS =  $\Sigma$ B1ACPZZ

### British thermal units (Btu)

SEDS develops Btu renewable diesel consumption estimates as the product of the estimated physical unit consumption by EIA's renewable diesel Btu conversion factor (5.494 million Btu per barrel). Btu consumption by state and for the United States are:

B1ACBZZ = B1ACPZZ \* 5.494

B1ACBUS =  $\Sigma$ B1ACBZZ B1TCBZZ = B1ACBZZ B1TCBUS =  $\Sigma$ B1TCBZZ

### Energy losses and co-products from renewable diesel production

Unlike fuel ethanol and biodiesel, EIA does not estimate energy losses and co-products from renewable diesel production because EIA does not have renewable diesel feedstock data.

#### Additional note

Because of differences in data sources and estimation methods, the ratio of renewable diesel consumption to distillate fuel oil consumption should not be interpreted as the average renewable diesel blend ratio.

#### Data sources

B1TCPUS — Renewable diesel total consumption in the United States.

- 1960 through 2010: No data available. EIA assumes the values to be zero.
- 2011 forward: EIA, *Monthly Energy Review*, Table 10.4b.

# **Solar energy**

Solar energy consumption includes solar thermal and photovoltaic electricity generation and solar thermal energy consumed as heat. The U.S. Energy Information Administration (EIA) collects data for electricity net generation in facilities with capacity of 1 megawatt or greater (utility-scale), on Form EIA-923, "Power Plant Operations Report," and predecessor forms. Net generation in the electric power sector is available for 1984 forward and net generation at commercial and industrial utility-scale facilities are available for 2008 forward.

EIA estimates and reports data for photovoltaic electricity generation in facilities with a combined generator capacity less than 1 megawatt (small-scale) for the residential, commercial, and industrial sectors for 2014 forward in EIA's *Electric Power Annual*. SEDS calculates state-level generation for 1989 through 2013 by allocating the national estimate, published in EIA's *Monthly Energy Review* (MER), to the states using cumulative capacity of photovoltaic installation.

For solar thermal energy consumed as heat, that is, produced by nonelectric applications such as pool heating and hot water heating, EIA estimates the national series for 1989 forward and publishes it in the MER. Although there are applications in the commercial and industrial sectors, they cannot be separately estimated, and all applications are included in the residential sector. The state-level estimation method is described on page 114.

# **Electric power sector**

The electric power sector includes estimates of electricity produced from solar thermal and photovoltaic energy sources by electric utilities for 1984 forward, and by both electric utilities and independent power producers for 1989 forward. The SEDS data series is ("ZZ" in the variable name represents the two-letter state code that differs for each state):

SOEGPZZ = solar thermal and photovoltaic electricity net generation in the electric power sector, for each state, in million kilowatthours.

The U.S. total for this series is the sum of the state data:

 $SOEGPUS = \Sigma SOEGPZZ$ 

SEDS converts solar thermal and photovoltaic electricity net generation in the electric power sector from kilowatthours (kWh) to British thermal

units (Btu) by using the constant heat content of electricity of 3.412 thousand Btu per kWh.

SEDS converts the values for the electric power sector in each state to Btu and the U.S. total is the sum of the state data:

SOEGBZZ = SOEGPZZ \* 3.412SOEGBUS =  $\Sigma$ SOEGBZZ

### **Commercial sector**

Solar energy consumed by the commercial sector covers solar electricity generation at utility-scale and small-scale facilities. Data for solar thermal and photovoltaic electricity net generation at commercial combined-heat-and-power (CHP) and electricity-only plants with combined generator capacity of 1 megawatt or greater (utility-scale) are available for 2008 forward. The SEDS data series is ("ZZ" in the name represents the two-letter state code that differs for each state):

SOC5PZZ = solar thermal and photovoltaic electricity net generation at utility-scale commercial CHP and electricity-only facilities by state, in million kilowatthours.

The U.S. value is the sum of the state data:

 $SOC5PUS = \Sigma SOC5PZZ$ 

EIA estimates data for photovoltaic electricity generation at facilities with a combined generator capacity less than 1 megawatt (small-scale) in the commercial sector, not covered by EIA's power plant operations survey, for 2014 forward. The SEDS data series is ("ZZ" in the name represents the two-letter state code that differs for each state):

SOC7PZZ = photovoltaic electricity generation at smallscale commercial facilities by state, in million kilowatthours.

The U.S. value is the sum of the state data:

 $SOC7PUS = \Sigma SOC7PZZ$ 

Before 2014, EIA estimates and reports U.S. small-scale photovoltaic electricity generation in the *Monthly Energy Review*. For 2006 through 2013, SEDS estimates state generation using historical growth rates of the state-level cumulative installed capacity that EIA estimated based

on capacity of PV installations in the non-residential sector provided by the Interstate Renewable Energy Council (IREC) and aligned to the U.S. total. For 1989 through 2005, SEDS allocates the U.S. total to the states using 2006 state cumulative installed capacity shares.

SEDS calculates consumption in Btu using the constant heat content of electricity of 3.412 thousand Btu per kWh:

SOC5BZZ = SOC5PZZ \* 3.412 SOC7BZZ = SOC7PZZ \* 3.412

Total commercial sector solar energy consumption includes consumption of energy from both utility-scale and small-scale electricity generation:

SOCCPZZ = SOC5PZZ + SOC7PZZ

 $SOCCPUS = \Sigma SOCCPZZ$ 

SOCCBZZ = SOC5BZZ + SOC7BZZ

 $SOCCBUS = \Sigma SOCCBZZ$ 

### Industrial sector

Solar energy consumed by the industrial sector includes solar energy generation at utility-scale and small-scale facilities. Data for solar thermal and photovoltaic electricity net generation at industrial combined-heat-and-power (CHP) and electricity-only plants with combined generator capacity of 1 megawatt or greater (utility-scale) are available for 2008 forward. The SEDS data series is ("ZZ" in the name represents the two-letter state code that differs for each state):

SOI5PZZ = solar thermal and photovoltaic electricity net generation at utility-scale industrial CHP and electricity-only facilities by state, in million kilowatthours.

The U.S. value is the sum of the state data:

SOI5PUS =  $\Sigma$ SOI5PZZ

EIA estimates data for photovoltaic electricity generation at facilities with a combined generator capacity less than 1 megawatt (small-scale) in the industrial sector, not covered by EIA's power plant operations survey, for 2014 forward. The SEDS data series is ("ZZ" in the name represents the two-letter state code that differs for each state):

SOI7PZZ = photovoltaic electricity generation at small-scale industrial facilities by state, in million kilowatthours.

The U.S. value is the sum of the state data:

SOI7PUS =  $\Sigma$ SOI7PZZ

Before 2014, EIA estimates and reports U.S. small-scale photovoltaic electricity generation in the *Monthly Energy Review*. For 2006 through 2013, SEDS estimates state generation using historical growth rates of the state-level cumulative installed capacity that EIA estimated based on capacity of PV installations in the non-residential sector published by the Interstate Renewable Energy Council (IREC) and aligned to the U.S. total. For 1989 through 2005, SEDS allocates the U.S. total to the states using 2006 state cumulative installed capacity shares.

SEDS calculates consumption in Btu using the constant heat content of electricity of 3.412 thousand Btu per kWh:

SOI5BZZ = SOI5PZZ \* 3.412 SOI7BZZ = SOI7PZZ \* 3.412

Total industrial sector solar energy consumption includes consumption of energy from both utility-scale and small-scale electricity generation:

SOICPZZ = SOI5PZZ + SOI7PZZ

SOICPUS =  $\Sigma$ SOICPZZ

SOICBZZ = SOI5BZZ + SOI7BZZ

SOICBUS =  $\Sigma$ SOICBZZ

### **Residential sector**

Solar energy consumed by the residential sector covers small-scale photovoltaic electricity generation and solar thermal energy consumed as heat. EIA estimates data in British thermal units (Btu) for U.S. solar thermal energy consumed as heat and publishes it in the *Monthly Energy Review* for 1989 forward:

SOT8BUS = solar thermal energy consumed as heat in the United States, in billion Btu.

The commercial and industrial sectors also consume solar thermal energy as heat, but those amounts cannot be separately estimated. SEDS includes all solar heat consumption in the residential sector.

EIA develops a state-level series for allocating the U.S. total to the states from accumulated data on shipments of solar thermal collectors to states, measured in square feet, as collected on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and predecessor forms. EIA

published the data in the EIA *Renewable Energy Annual*. SEDS assumes that the retirement/replacement period for solar thermal collectors is 20 years. See "Additional Notes on Solar Energy" on page 115 for more details. The SEDS data series are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

SOTTPZZ = rolling 20-year accumulation of shipments of solar thermal energy collectors by state, in square feet.

SEDS calculates the U.S. total of shipments of solar thermal energy collectors as the sum of the state data:

SOTTPUS =  $\Sigma$ SOTTPZZ

The survey EIA-63A was terminated in 2012 and data for 2010 forward are not available from EIA or other sources. SEDS uses the 2009 values for SOTTPZZ for 2010 forward.

SEDS allocates the U.S. solar thermal energy consumed as heat to the states as follows:

SOT8BZZ = (SOTTPZZ/SOTTPUS) \* SOT8BUS

EIA estimates data for photovoltaic electricity generation by small-scale applications in the residential sector for 2014 forward. The SEDS data series is ("ZZ" in the name represents the two-letter state code that differs for each state):

SOR7PZZ = photovoltaic electricity generation by small-scale applications in the residential sector by state, in million kilowatthours.

The U.S. value is the sum of the state data:

SOI7PUS =  $\Sigma$ SOI7PZZ

Before 2014, EIA estimates and reports U.S. small-scale photovoltaic electricity generation in the *Monthly Energy Review*. For 2006 through 2013, SEDS estimates state generation using historical growth rates of the state-level cumulative installed capacity that EIA estimated based on capacity of PV installations in the residential sector provided by the Interstate Renewable Energy Council (IREC) and aligned to the U.S. total. For 1989 through 2005, SEDS allocates the U.S. total to the states using 2006 state cumulative installed capacity shares.

SEDS calculates consumption in Btu using the constant heat content of electricity of 3.412 thousand Btu per kWh:

SOR7BZZ = SOR7PZZ \* 3.412

Total residential sector solar energy consumption includes solar thermal energy consumed as heat and energy consumption from small-scale electricity generation:

SORCBZZ = SOT8BZZ + SOR7BZZ

 $SORCBUS = \Sigma SORCBZZ$ 

# **Total consumption**

Each state's total solar energy consumption is the sum of the sectors' values, and the U.S. total is the sum of the states' totals:

SOTCBZZ = SOEGBZZ + SOCCBZZ + SOICBZZ + SORCBZZ

SOTCBUS =  $\Sigma$ SOTCBZZ

#### Additional calculation

SEDS calculates total net generation from solar energy in both utilityscale and small-scale facilities and applications as follows:

SOTGPZZ = SOR7PZZ + SOCCPZZ + SOICPZZ + SOEGPZZ

SOTGPUS =  $\Sigma$ SOTGPZZ

#### Additional notes

1. For 1974 through 2009, shipments of solar thermal collectors in the United States, in thousand square feet, were collected on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," (and predecessor forms). SEDS uses those data to develop this series for 1989 forward. SEDS accumulates the data annually based on the assumption that the replacement/retirement period for solar thermal collectors is 20 years. Data for 1974 through 1985 are available for the U.S. total only and SEDS allocates them to the states using the state-level average of the 1986 and 1987 shipments (the first years state-level data were collected). For 1974 through 1985, SEDS applies the state-level shares of those 1986 and 1987 values to the annual U.S. value. For 1986 forward, SEDS adjusts the U.S. data to remove Puerto Rico and the Virgin Islands.

Shipments of solar thermal collectors include high-temperature parabolic dish or trough collectors used by the electric power sector. Data for California (1986 through 1996, 1998 through 2001, 2008, and 2009), Arizona (2005, 2009), and Nevada (2006) are

- reduced by the shipments of high-temperature parabolic dish or trough collectors to the electric power sector as shown in the EIA *Renewable Energy Annual*. See SOTTPZZ Data Sources on page 117 for source table details.
- 2. During the SEDS 2022 data cycle, EIA updated the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (solar, wind, hydroelectric, and geothermal) to Btu using the constant conversion of 3,412 Btu per kWh (the heat content of electricity). This method is called the captured energy approach. Before the SEDS 2022 cycle, EIA converted noncombustible renewable energy sources to Btu using the annual U.S. average heat content of fossil fuels consumed at steam-electric power plants (FFETKUS) as a conversion factor. That method is called the fossil fuel equivalency approach. The captured energy approach is more consistent with international energy statistics standards from the United Nations than the fossil fuel equivalency approach. See EIA's Monthly Energy Review Appendix E for more information. The annual values for FFETKUS are shown in the consumption technical notes, Appendix B, Table B1, http://www.eia.gov/state/seds/seds-technical-notes-complete. php and in the SEDS thermal conversion factors time series data files http://www.eia.gov/state/seds/sep use/total/csv/use convfac. CSV.

#### Data sources

SOC5PZZ — Solar thermal and photovoltaic electricity net generation at utility-scale commercial CHP and electricity-only facilities by state.

- 1960 through 2007: No data available. Values are assumed to be zero.
- 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

SOC7PUS — Photovoltaic electricity generation at small-scale commercial facilities in the United States.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 through 2013: EIA, Monthly Energy Review, Table 10.6.
- 2014 forward: EIA, Electric Power Annual, Table 3.4.B.

SOC7PZZ — Photovoltaic electricity generation at small-scale commercial facilities by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 through 2013: Estimated by EIA.
- 2014 forward: EIA, Electric Power Annual, Table 3.21.

SOEGPZZ — Solar thermal and photovoltaic electricity net generation in the electric power sector by state.

- 1960 through 1983: No data available. Values are assumed to be zero.
- 1984 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

SOI5PZZ — Solar thermal and photovoltaic electricity net generation at utility-scale industrial CHP and electricity-only facilities by state.

- 1960 through 2007: No data available. Values are assumed to be zero.
- 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

SOI7PUS — Photovoltaic electricity generation at small-scale industrial facilities in the United States.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 through 2013: EIA, Monthly Energy Review, Table 10.6.
- 2014 forward: EIA, Electric Power Annual, Table 3.5.B.

SOI7PZZ — Photovoltaic electricity generation at small-scale industrial facilities by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 through 2013: Estimated by EIA.
- 2014 forward: EIA, Electric Power Annual, Table 3.21.

SOR7PUS — Photovoltaic electricity generation by small-scale applications in the residential sector in the United States.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 through 2013: EIA, Monthly Energy Review, Table 10.6.

• 2014 forward: EIA, Electric Power Annual, Table 3.6.

SOR7PZZ — Photovoltaic electricity generation by small-scale applications in the residential sector by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 through 2013: Estimated by EIA.
- 2014 forward: EIA, Electric Power Annual, Table 3.21.

SOT8BUS — Solar thermal energy consumed as heat in the United States.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Monthly Energy Review, Table 10.5.

SOTTPZZ — Rolling 20-year accumulation of shipments of solar thermal energy collectors by state.

- 1960 through 1988: Values are set to zero in SEDS for consistency with SORCBUS.
- 1989 through 2009: Shipments of solar thermal collectors in the United States, in thousand square feet, for 1974 forward are collected on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," (and predecessor forms) and used to develop this series for 1989 forward. The sources for these data series are
  - 1986 through 1993: EIA, Solar Collector Manufacturing Activity for each year. The specific table numbers are
    - 1986 through 1988, 1990: Table 5.
    - 1989: Table 4.
    - 1991 and 1992: Table 13.
    - 1993: Table 12.
  - 1994 through 2009: EIA, Renewable Energy Annual. Data are from the report of the following year (i.e., 1994 data are published in the Renewable Energy Annual 1995) for 1994 through 2000. Beginning in 2001, data are from the report of the same year. The specific tables are
    - 1994: Table 13.
    - 1995: Table F9.
    - 1996: Table 16.
    - 1997: Table 15.

- 1998 and 1999: Table 12.
- · 2000: Unpublished data.
- 2001 through 2003: Table 14.
- 2004 and 2005: Table 34.
- 2006 through 2009: Table 2.6.

Note: High-temperature parabolic dish or trough collectors shipped to the electric power sector are deducted from the solar thermal collector shipments. They are available in the following tables:

- 1986 through 1993: EIA, Renewable Energy Annual 1995, Table
   13.
- 1994 through 2009: EIA, Renewable Energy Annual. Data are from the report of the following year (i.e., 1994 data are published in the Renewable Energy Annual 1995) for 1994 through 2000. Beginning in 2001, data are from the report of the same year. The specific tables are
  - 1994: Table H3.
  - 1995: Table F10.
  - 1996: Table 17.
  - 1997: Table 19.
  - 1998 and 1999: Table 16.
  - · 2000: Unpublished data.
  - · 2001 through 2003: Table 18.
  - · 2004 and 2005: Table 38.
  - 2006: Table 2.10.
  - 2007 through 2009: Table 2.13.

# Wind energy

The State Energy Data System (SEDS) estimates wind electricity net generation in the electric power sector for 1983 forward. For 2009 forward, data for wind electricity net generation at utility-scale commercial and industrial combined-heat-and-power (CHP) and electricity-only plants are available from the U.S. Energy Information Administration (EIA) electric power plant survey. The SEDS data series are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

WYEGPZZ = wind electricity net generation in the electric power sector, by state, in million kilowatthours;

WYC5PZZ = wind electricity net generation at utility-scale commercial CHP and electricity-only facilities by

state, in million kilowatthours; and

WYI5PZZ = wind electricity net generation at utility-scale industrial CHP and electricity-only facilities by state, in million

kilowatthours.

SEDS represents wind electricity net generation in the commercial and industrial sectors as:

WYCCPZZ = WYC5PZZ WYICPZZ = WYI5PZZ

The U.S. total is the sum of the state data for each series.

SEDS converts wind electricity net generation from kilowatthours (kWh) to British thermal units (Btu) using the constant heat content of electricity of 3.412 thousand Btu per kWh.

WYEGBZZ = WYEGPZZ \* 3.412 WYC5BZZ = WYC5PZZ \* 3.412 WYI5BZZ = WYI5PZZ \* 3.412 WYCCBZZ = WYC5BZZ WYICBZZ = WYI5BZZ

The U.S. value for each of the series is the sum of the state data.

Each state's total consumption of wind electricity is the sum of the sectors' values, and the U.S. total is the sum of the states' totals:

WYTCPZZ = WYEGPZZ + WYCCPZZ + WYICPZZ

WYTCPUS =  $\Sigma$ WYTCPZZ

WYTCBZZ = WYEGBZZ + WYCCBZZ + WYICBZZ

WYTCBUS =  $\Sigma$ WYTCBZZ

#### Additional notes

During the SEDS 2022 data cycle, EIA updated the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (solar, wind, hydroelectric, and geothermal) to Btu using the constant conversion of 3,412 Btu per kWh (the heat content of electricity). This method is called the captured energy approach. Before the SEDS 2022 cycle, EIA converted noncombustible renewable energy sources to Btu using the annual U.S. average heat content of fossil fuels consumed at steam-electric power plants (FFET-KUS) as a conversion factor. That method is called the fossil fuel equivalency approach. The captured energy approach is more consistent with international energy statistics standards from the United Nations than the fossil fuel equivalency approach. See EIA's Monthly Energy Review Appendix E for more information. The annual values for FFET-KUS are shown in the consumption technical notes, Appendix B, Table B1, http://www.eia.gov/state/seds/seds-technical-notes-complete.php and in the SEDS thermal conversion factors time series data files http:// www.eia.gov/state/seds/sep\_use/total/csv/use\_convfac.csv.

#### Data sources

WYC5PZZ — Wind electricity net generation at utility-scale commercial CHP and electricity-only facilities by state.

- 1960 through 2008: No data available. Values are assumed to be zero.
- 2009 forward: EIA, Form EIA-923, "Power Plant Operations Report."

WYEGPZZ — Wind electricity net generation in the electric power sector by state.

- 1960 through 1982: No data available. Values are assumed to be zero.
- 1983 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms.

WYI5PZZ — Wind electricity net generation at utility-scale industrial CHP and electricity-only facilities by state.

- 1960 through 2009: No data available. Values are assumed to be zero.
- 2010 forward: EIA, Form EIA-923, "Power Plant Operations Report."

0

D

D

## Wood and biomass waste

The State Energy Data System (SEDS) estimates wood consumption in the residential, commercial, industrial, and electric power sectors, as well as biomass waste (waste) consumption in the commercial, industrial, and electric power sectors. SEDS sums wood and waste consumption to create the combined *wood and waste* category.

Wood includes wood and wood-derived fuels. Waste is biomass waste, which includes: municipal solid waste from biogenic sources, landfill gas, sludge waste, and agricultural byproducts. Before 2001, waste also includes non-biomass waste (municipal solid waste from non-biogenic sources and tire-derived fuels) that SEDS does not separately estimate.

Each energy-consuming sector uses different forms of wood and waste. The residential sector burns wood for space heating and cooking. The commercial sector burns wood for space heating, and uses wood, municipal waste, and landfill gas for steam heat and electricity generation. The industrial sector uses combustible industrial byproducts and wood chips for electricity generation and process steam. The electric power sector uses wood, industrial wood waste and waste gas, and municipal waste as co-firing or primary fuels to produce electricity.

### Residential sector

### Physical units

SEDS estimates wood consumption in the residential sector, but not biomass waste. Before 2015, SEDS estimates residential sector wood consumption in thousand cords and converts to British thermal units (Btu). For 2015 forward, EIA's source data has residential wood consumption in Btu only, not in physical units.

For 1960 through 1979, estimates of wood consumed in the residential sector by state are from the U.S. Energy Information Administration (EIA) *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*. SEDS converts data published in thousand short tons to thousand cords using the factors of one short ton equals 17.2 million Btu (as published in the footnote of Table A4 of the publication) and 20 million Btu equal one cord of wood, (as published in EIA, *Household Energy Consumption and Expenditures 1993*, page 314).

For 1980 through 2014, SEDS develops state estimates using (1) U.S. total, Census division, and selected state data collected on the EIA triennial/ quadrennial survey, *Residential Energy Consumption Survey* 

(RECS), (2) U.S. residential wood consumption estimates published in EIA's *Annual Energy Review* (AER) or *Monthly Energy Review* (MER), and (3) U.S. Department of Commerce, Census Bureau, annual estimates of number of housing units by state from the Population Census or Annual Housing Survey (prior to 2005) or the number of occupied housing units that use wood as primary heating fuel from the *American Community Survey* (2005 through 2014).

RECS data are available in thousand cords for 1981, 1984, 1987, 1990, 1993, 1997, 2001, 2005, and 2009 only, and not for 2015 forward. The 1981 RECS provides wood consumption data for the national total and Census regions. For the other RECS years through 2009, RECS provides data for the national total and Census divisions. For 1993 through 2005, RECS also provides data for the four largest-consuming states—California, Florida, New York, and Texas. For 2009, SEDS uses RECS data available in the microdata file for 16 states (the top four states plus Arizona, Colorado, Georgia, Illinois, Massachusetts, Michigan, Missouri, New Jersey, Pennsylvania, Tennessee, Virginia, and Wisconsin) and 11 regions covering all the other states.

For the RECS data years prior to 2005, SEDS allocates the regional values to the states within each region in proportion to the U.S. Census Bureau data on housing units by state, assuming that no wood is consumed in the residential sector in Hawaii. For 2005 and 2009, SEDS uses the number of occupied housing units that use wood as primary heating fuel from the *American Community Survey* (3-Year Estimates) to allocate the regional values to the states.

For the other (non-RECS) years, SEDS converts the U.S. totals published in AER or MER from Btu to thousand cords using the factor of 20 million Btu per cord. They are then allocated to the states using the estimated state shares of the preceding available RECS year.

The SEDS state data for residential wood data in physical units through 2014 are ("ZZ" represents the two-letter state code that differs for each state):

WDRCPZZ = wood consumed by the residential sector of each state, in thousand cords.

The U.S. total is the sum of the states:

 $WDRCPUS = \Sigma WDRCPZZ$ 

D

### British thermal units (Btu)

For all years, SEDS estimates state residential wood consumption in Btu using various sources depending on the year ("ZZ" represents the two-letter state code that differs for each state):

WDRCBZZ = wood consumed by the residential sector of each state, in billion Btu.

For 1960 through 2014, SEDS converts the residential sector data in cords (WDRCPZZ) to Btu using the conversion factor of 20 million Btu per cord:

WDRCBZZ = WDRCPZZ \* 20

The U.S. total is the sum of the states:

WDRCBUS = ΣWDRCBZZ

For 2015 forward, EIA's source data provides U.S. total residential wood consumption data in Btu units only, not in physical units. SEDS estimates residential wood consumption in billion Btu, using (1) U.S. residential wood consumption estimates published in EIA's *Monthly Energy Review* (MER), (2) U.S. Department of Commerce, Census Bureau, annual state estimates for the number of occupied housing units that use wood as primary heating fuel from the *American Community Survey* (ACS), and (3) U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), state population-weighted heating degree days (HDD). SEDS assigns an adjusted temperature-based HDD using EIA internal estimates for Hawaii.

The MER U.S.-level residential wood consumption estimates in Btu (WDRCBUS) directly come from EIA's *Residential Energy Consumption Survey* (RECS) for years in which the RECS has data (2015 and 2020), and annual growth rates from EIA's *Annual Energy Outlook* to estimate the gap years between RECS publications.

RECS no longer provides Census-level or selected state-level data in its regular publication. SEDS calculates state-level residential wood consumption shares using the product of ACS housing units that use wood as primary heat and state HDDs. SEDS allocates the U.S.-level residential wood consumption (WDRCBUS) to the states proportionally to each state's ACS and HDD data to estimate state residential wood consumption (WDRCBZZ).

Data sources

WDRCPZZ — Wood energy consumed by the residential sector by state, in thousand cords (through 2014).

- 1960 through 1979: EIA, Estimates of U.S. Wood Consumption from 1949 to 1981, Table A4.
- 1980 through 2014: U.S. totals published in the EIA Annual Energy Review (AER) or Monthly Energy Review (MER), Table 10.2a.
  - 1980 through 1983: U.S. Census region wood consumption in thousand cords from Form EIA-457, "1981 Residential Energy Consumption Survey" is allocated to the states within each region in proportion to the U.S. Department of Commerce, Census Bureau, American Housing Survey, "Total Housing Units for States, July 1, 1981."
  - 1984 through 1986: U.S. Census division wood consumption in thousand cords from Form EIA-457, "1984 Residential Energy Consumption Survey" is allocated to the states within each division in proportion to the U.S. Department of Commerce, Census Bureau, American Housing Survey, "Total Housing Units for States, July 1, 1984."
  - 1987 through 1989: U.S. Census division wood consumption in thousand cords from Form EIA-457, "1987 Residential Energy Consumption Survey" is allocated to the states within each division in proportion to the U.S. Department of Commerce, Census Bureau, American Housing Survey, "Total Housing Units for States, July 1, 1987."
  - 1990 through 1992: U.S. Census division wood consumption in thousand cords is from Form EIA-457, "1990 Residential Energy Consumption Survey." State-level estimates are available for 1993 for California, Florida, New York, and Texas from the Form EIA-457, "1993 Residential Energy Consumption Survey." Those four states' percentages of their respective Census division totals in the 1993 survey are applied to the 1990 Census division data to derive their 1990 values. Wood consumption by the other states in each division is estimated by allocating the remaining division data to the states in proportion to the U.S. Department of Commerce, Census Bureau, Internet file (ST-98-51) "Estimates of Housing Units,...Annual Time Series,... (includes revised April 1, 1990 census housing...)" column titled "4/1/90 Census" at http://www2.census.gov/programs-surveys/popest/tables/1990-2000/housing/totals/st-98-51.txt.
  - 1993 through 1996: Residential wood consumption data for U.S. Census divisions and for California, Florida, New York,

and Texas are from Form EIA-457, "1993 Residential Energy Consumption Survey." Data for the other states in each division are estimated by allocating the remaining division data to the states in proportion to the U.S. Department of Commerce, Census Bureau, Internet file (ST-98-51) "Estimates of Housing Units,...Annual Time Series, July 1, 1991 to July 1, 1998...," column titled "7/1/93" at http://www2.census.gov/programs-surveys/popest/tables/1990-2000/housing/totals/st-98-51.txt.

- 1997 through 2000: Residential wood consumption data for U.S. Census divisions and for California, Florida, New York, and Texas are from Form EIA-457, "1997 Residential Energy Consumption Survey." Data for the other states in each division are estimated by allocating the remaining division data to the states in proportion to the U.S. Department of Commerce, Census Bureau, Internet file (ST-98-51) "Estimates of Housing Units,...Annual Time Series, July 1, 1991 to July 1, 1998...," column titled "7/1/97" at http://www2.census.gov/programssurveys/popest/tables/1990-2000/housing/totals/st-98-51.txt.
- 2001 through 2004: Residential wood consumption data for U.S. Census divisions and for California, Florida, New York, and Texas are from Form EIA-457, "2001 Residential Energy Consumption Survey." Data for the other states in each division are estimated by allocating the remaining division data to the states in proportion to the U.S. Department of Commerce, Census Bureau, Internet file "Table 1. Annual Estimates of Housing Units for the United States and States: April 1, 2000 to July 1, 2007," column titled "July 1, 2001" at http://www.census. gov/programs-surveys/popest.html.
- 2005 through 2008: Residential wood consumption data for U.S. Census divisions and for California, Florida, New York, and Texas are from Form EIA-457, "2005 Residential Energy Consumption Survey." Data for the other states in each division are estimated by allocating the remaining division data to the states in proportion to the U.S. Department of Commerce, Census Bureau, 2005-2007 American Community Survey 3-Year Estimates, Series B25040, by state, Occupied Housing Units by House Heating Fuel, item titled "Wood," at http://data.census.gov/cedsci/.
- 2009 through 2014: Residential wood consumption data for 16 states and 11 regions are from Form EIA-457, "2009 Residential Energy Consumption Survey." Data for the states in each region are estimated by allocating the regional data to the states in proportion to the U.S. Department of Commerce, Census Bureau, 2008-2010 American Community Survey 3-Year

Estimates, Series B25040, by state, Occupied Housing Units by House Heating Fuel, item titled "Wood," at http://data.census.gov/cedsci/.

2015 forward: No data available.

WDRCBUS — Wood energy consumed by the residential sector in the United States, in billion Btu (2015 forward).

• 2015 forward: EIA, Monthly Energy Review, Table 10.2a.

WDRCBZZ — Wood energy consumed by the residential sector by state, in billion Btu (2015 forward).

• 2015 forward: Estimated by EIA using state allocators derived from U.S. Department of Commerce, Census Bureau, American Community Survey 1-Year Estimates (2015—2019 and 2021 forward) and 5-Year Estimates (2020), Series B25040, by state, Occupied Housing Units by House Heating Fuel, item titled "Wood," at <a href="http://data.census.gov/">http://data.census.gov/</a> and U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Centers for Environmental Information, historical state-level heating degree days (HDD) data at <a href="http://ftp.ncdc.noaa.gov/pub/data/cirs/climdiv/">http://ftp.ncdc.noaa.gov/pub/data/cirs/climdiv/</a> (use Microsoft Edge "Internet Explorer mode") and National Weather Service Climate Prediction Service, Degree Days Statistics at <a href="http://www.cpc.ncep.noaa.gov/products/">http://www.cpc.ncep.noaa.gov/products/</a> analysis\_monitoring/cdus/degree\_days/.

### **Commercial sector**

For 1960 through 1979, estimates of wood consumed in the commercial sector by state are from the EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*. SEDS converts the data published in thousand short tons to billion Btu by using the conversion factor of one short ton equals 17.2 million Btu. The report assumed that wood is consumed in the commercial sector in proportion to consumption in the residential sector each year. For 1980 through 1988, national-level commercial wood consumption estimates in trillion Btu are from the EIA, *Annual Energy Review* (AER). Using the same methodology as for previous years, SEDS allocates the national data to the states in proportion to residential sector wood use each year.

For 1989 forward, SEDS uses the state-level data on wood and waste consumption by commercial combined-heat-and-power (CHP) and

electricity-only plants from Form EIA-923, "Power Plant Operations Report," and predecessor forms and the U.S. total wood consumption in the commercial sector from the AER or the Monthly Energy Review (MER). SEDS subtracts the sum of the state commercial CHP and electricity-only plant wood consumption from the AER/MER national commercial sector total and allocates the remainder to the states in proportion to each state's residential sector wood use each year.

The data series described above, used to estimate SEDS wood and waste consumption in the commercial sector, are identified as follows ("ZZ" in the variable names represents the two-letter state code that differs for each state):

WDCCBUS = wood consumed by the commercial sector in the United States, in billion Btu;

WDC3BZZ = wood consumed by CHP and electricity-only facilities in the commercial sector of each state, in billion Btu:

WSC3BZZ = waste consumed by CHP and electricity-only facilities in the commercial sector of each state, in billion Btu.

The U.S. totals are the sum of the states:

WDC3BUS =  $\Sigma$ WDC3BZZ WSC3BUS =  $\Sigma$ WSC3BZZ

SEDS calculates the national total wood consumed by commercial entities other than CHP and electricity-only facilities as shown below and allocates those volumes to the states in proportion to the residential wood consumption series as follows:

WDC4BUS = WDCCBUS - WDC3BUS

WDC4BZZ = (WDRCPZZ/WDRCPUS) \* WDC4BUS

SEDS calculates state totals of commercial wood consumption as the sum of consumption by CHP and electricity-only facilities and the remaining commercial sector:

WDCCBZZ = WDC3BZZ + WDC4BZZ

SEDS assumes state total commercial consumption of waste is equal to commercial waste consumption by CHP and electricity-only facilities, which are the only commercial facilities with waste consumption. The U.S. total is the sum of the states:

WSCCBZZ = WSC3BZZ

 $WSCCBUS = \Sigma WSCCBZZ$ 

SEDS calculates the total wood and waste consumption in the commercial sector as the sum of wood consumption and waste consumption, and calculates the U.S. total as the sum of the state data:

WWCCBZZ = WDCCBZZ + WSCCBZZ

WWCCBUS= ΣWWCCBZZ

#### Data sources

WDC3BZZ — Wood energy consumed by CHP and electricity-only facilities in the commercial sector of each state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/.

WDCCBUS — Wood consumed by the commercial sector in the United States.

- 1960 through 1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A7.
- 1980 through 2010: EIA, Annual Energy Review, Table 10.2a.
- 2011 forward: EIA, Monthly Energy Review, Table 10.2a.

WSC3BZZ — Waste energy consumed by CHP and electricity-only facilities in the commercial sector of each state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/.

### Industrial sector

SEDS presents industrial wood and waste consumption only in Btu because its components are measured in a variety of different physical units (such as tons, cubic feet, and kilowatt-hours). There are two groups of users: (1) industrial combined-heat-and-power (CHP) and electricityonly facilities and (2) other industrial entities.

0

0

D

For 1989 forward, state-level data on wood and waste consumption by industrial CHP and electricity-only facilities are available from Form EIA-923, "Power Plant Operations Report," and predecessor forms. SEDS assigns the following variable names to the series ("ZZ" in the variable name represents the two-letter state code that differs for each state):

WDI3BZZ = wood consumed by CHP and electricity-only facilities in the industrial sector in each state, in billion Btu; and

WSI3BZZ = waste consumed by CHP and electricity-only facilities in the industrial sector of each state, in billion Btu.

Before 1989, SEDS assumes wood and waste consumed by industrial CHP and electricity-only facilities to be zero.

The U.S. totals are the sum of the states:

WDI3BUS =  $\Sigma$ WDI3BZZ WSI3BUS =  $\Sigma$ WSI3BZZ

SEDS identifies wood and waste consumed by all other industries (mainly the manufacturing sector) by the following names:

WDI4BZZ = wood consumed for other uses in the industrial sector of each state, in billion Btu: and

WSI4BZZ = waste consumed for other uses in the industrial sector of each state, in billion Btu.

For 1960 through 1979, industrial sector wood and waste consumption estimates by state are from the EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*. SEDS converts the data from thousand short tons to billion Btu using the factor of one short ton equals 17.2 million Btu.

For 1980 through 1995, SEDS derives estimates using the national-level data series published in the EIA *Annual Energy Review* (AER) or *Monthly Energy Review* (MER). National wood and waste consumption by type is collected by Standard Industrial Classification (SIC) on the EIA triennial survey Form EIA-846, *Manufacturing Energy Consumption Survey* (MECS) for 1985, 1988, 1991, and 1994. SEDS assumes that wood and waste use in the manufacturing sector occurs primarily in the industries included in SIC series 2421 (sawmills and planing mills), 2511 (wood household furniture), 2621 (paper mills), 2046 (wet corn milling), and 2061 (raw cane sugar). SEDS estimates the amount of wood and waste consumed by each of the SIC groups of industries from the MECS data, and uses the MECS proportions to allocate the U.S. totals from the AER/MER to SIC groups for each year. SEDS allocates the SIC

annual subtotals to the states using state-level data on the value added in manufacturing processes for each of the SIC series listed above, as published in the U.S. Department of Commerce, Census Bureau, Census of Manufactures, Industry Series, for 1982, 1987, and 1992.

Estimates for 1996 forward use the same methodology used for 1980 through 1995 with the exception that the U.S. Census Bureau, *Economic Census* data for 1997 forward use North American Industry Classification System (NAICS) instead of SIC. Some categories used in the two classification systems are directly comparable and some are closely or roughly comparable. The NAICS codes used for estimating wood consumption are: 311221, 313, 321113, 3212, 322121, 322130, and 3372. The NAICS codes used for estimating waste consumption are: 311221, 311311 (for 2007 and earlier *Economic Census*) or 311314 (for 2012 *Economic Census*), 313, 32191, 322122, 322130, and 3372. The EIA survey Form EIA-846, MECS, also uses NAICS codes in the surveys for 1998 forward. The discontinuity in these state allocating series caused by the change from SIC to NAICS categories is not significant in light of the broad assumptions of the estimation methodology.

Also beginning in 2006, SEDS uses data on value of shipments from the Economic Censuses instead of value added data.

For 2011 forward, SEDS assumes two-thirds of the U.S. industrial waste consumption to be landfill gas, which is used to generate heat or electricity. To allocate landfill gas consumption to the states, SEDS uses data on landfill gas flow for all operational landfill projects with capacity under 1 megawatt from the U.S. Environmental Protection Agency Landfill Methane Outreach Program to compile the state shares. SEDS allocates the remaining one-third of WSI4B to the states using the MECS data and Economic Census data as explained above. WSI4B is the sum of the two components.

The U.S. totals are the sum of the states:

WDI4BUS =  $\Sigma$ WDI4BZZ WSI4BUS =  $\Sigma$ WSI4BZZ

SEDS calculates industrial sector wood and waste consumption as the sum of consumption by CHP and electricity-only facilities and consumption by other industries:

WDICBZZ = WDI3BZZ + WDI4BZZ

WDICBUS =  $\Sigma$ WDICBZZ

WSICBZZ = WSI3BZZ + WSI4BZZ

 $WSICBUS = \Sigma WSICBZZ$ 

D

SEDS calculates total wood and waste consumed by other industries as the sum of wood consumption and the sum of waste consumption, and calculates the U.S. total as the sum of the state data:

WWI4BZZ = WDI4BZZ + WSI4BZZ

WWI4BUS =  $\Sigma$ WWI4BZZ

SEDS calculates the total industrial sector as the sum of wood consumption and the sum of waste consumption, and calculates the U.S. total as the sum of the state data:

WWICBZZ = WDICBZZ + WSICBZZ

WWICBUS =  $\Sigma$ WWICBZZ

#### Data sources

WDI3BZZ — Wood consumed by CHP and electricity-only facilities in the industrial sector by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/.

WDI4BZZ — Wood consumed by the industrial sector other than CHP and electricity-only facilities by state.

- 1960 through 1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A10.
- 1980 forward: EIA estimates developed by using three data sources. U.S. totals for each year are as published for selected years in the EIA, Annual Energy Review (AER), Table 10.2b, or Monthly Energy Review (MER), Table 10.2b.
  - 1980 through 1985: U.S. totals from the AER are allocated to Standard Industrial Classification (SIC) groups 20, 24, 25, and 26 based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey 1985," Table 3, Columns "Major Byproducts" and "Other." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1982 Census of Manufactures, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills,

- Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The state values for each of the four SIC groups are summed to derive state total wood and waste industrial consumption estimates.
- 1986 through 1989: U.S. totals from the AER are allocated to SIC groups 20, 24, 25, and 26 based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey 1988," Tables 2 and 18, columns "Pulping Liquor," "Roundwood," and "Wood Chips." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1987 Census of Manufactures. Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The state values for each of the four SIC groups are summed to derive state total industrial wood consumption estimates. For 1989 only, state-level data on wood consumption by combined heat and power (CHP) and electricity-only facilities are available from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu. These CHP and electricity-only state data are summed and subtracted from the AER U.S. total. The remaining value is assumed to be the manufacturing sector and is allocated to the states using the method above. The state values for each of the four SIC groups and the CHP and electricity-only facilities are summed to derive state total industrial wood consumption estimates.
- 1990 through 1993: State-level data on wood consumption by CHP and electricity-only facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, and 26 based on unpublished data on pulping liquor, roundwood, and wood chips from the Form EIA-846, "Manufacturing Energy Consumption Survey 1991 (MECS)." SIC groups 20 and 26 are grouped as "Other" in MECS. The proportions of those two groups in the 1988 and 1994 MECS are averaged and used to estimate the breakout for 1991. These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1992 Census of Manufactures, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046

- Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2541 Wood Partitions and Fixtures, and Industry 2621 Paper Mills. The state values for each of the four SIC groups and the CHP and electricity-only facilities are summed to derive State total industrial wood consumption estimates.
- 1994 and 1995: State-level data on wood consumption by CHP and electricity-only facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Pulping or Black Liquor," "Wood from Trees," and "Wood from Mills." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1992 Census of Manufactures. Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The state values for each of the five SIC groups and the CHP and electricity-only facilities are summed to derive state total industrial wood consumption estimates.
- 1996 and 1997: State-level data on wood consumption by CHP and electricity-only facilities from the Form EIA-867, "Annual Nonutility Power Producer Report," in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Pulping or Black Liquor," "Wood from Trees," and "Wood from Mills." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1997 Economic Census. In the Economic Census the SIC groupings for the state data are replaced by North American Industry Classification System (NAICS) industry groups. The two industry classification systems are not identical, but NAICS groups are chosen that compare with SIC categories as closely as possible. The state series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311221 Wet Corn Milling (for SIC 20 Food), Industry 321113 Sawmills, and Industry 3212 Engineered Wood Product Manufacturing (for SIC 24 Wood), Industry 3372 Office Furniture Manufacturing (for

- SIC 25 Furniture), Industry 322121 Paper Mills, and Industry 322130 Paperboard Mills (for SIC 26 Paper), and Industry 313 Textile Mills (for Other SIC). The state values for each of the five NAICS group subtotals and the CHP and electricity-only facilities are summed to derive state total industrial wood consumption estimates.
- 1998 forward: State-level data on wood consumption by CHP and electricity-only facilities from the Form EIA-923, "Power Plant Operations Report," and predecessor forms, in billion Btu are summed and subtracted from the AER/MER U.S. total. The remaining national value is allocated to NAICS industry groups 311, 321, 322, 337, and "Other" based on data from the Form EIA-846, Manufacturing Energy Consumption Survey, 1998 (for 1998-2001), 2002 (for 2002-2005), 2006 (for 2006-2010), 2010 (for 2011-2013), and 2014 (for 2014 forward), table entitled "Selected Wood and Wood-Related Products in Fuel Consumption," columns "Pulping or Black Liquor," "Wood from Trees," and "Wood from Mills." These NAICS subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, Economic Census for 1997 (1998-2000), 2002 (2001-2005), 2007 (2006-2010), and 2012 (2011 forward). For 1997 and 2002, the state series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311221 Wet Corn Milling (for NAICS 311 Food), Industry 321113 Sawmills, and Industry 3212 Engineered Wood Product Manufacturing (for NAICS 321 Wood products), Industry 3372 Office Furniture Manufacturing (for NAICS 337 Furniture), Industry 322121 Paper Mills, and Industry 322130 Paperboard Mills (for NAICS 322 Paper), and Industry 313 Textile Mills (for Other NAICS). For 2007 forward, the state series are the "Value of Shipments" data for the specific industries. Economic Census data are available at http://data. census.gov/cedsci/.

WSI3BZZ — Waste consumed by CHP and electricity-only facilities in the industrial sector by state.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/.

WSI4BZZ — Waste consumed by the industrial sector other than CHP and electricity-only facilities by state.

- 1960 through 1980: No data available. Values assumed to be zero.
- 1981 forward: EIA estimates developed by using three data sources. U.S. totals for each year are as published for selected years in the EIA, Annual Energy Review (AER), Table 10.2b, or Monthly Energy Review (MER), Table 10.2b.
  - 1981 through 1985: U.S. totals from the AER are allocated to Standard Industrial Classifications (SIC) groups 20, 24, 25, and 26 based on data from the EIA "Manufacturing Energy Consumption Survey 1985 (MECS)," Table 3, columns "Major By-products" and "Other." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1982 Census of Manufactures, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The state values for each of the four SIC groups are summed to derive state total industrial waste consumption estimates.
  - 1986 through 1989: U.S. totals from the AER are allocated to SIC groups 20, 24, 25, and 26 based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey 1988," Tables 2 and 18, columns "Waste" and "Biomass." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1987 Census of Manufactures. Table 2. column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The state values for each of the four SIC groups are summed to derive state total industrial waste consumption estimates. For 1989 only, state-level data on waste consumption by CHP and electricity-only facilities are available from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu. These CHP and electricity-only state data are summed and subtracted from the AER U.S. total. The remaining value is assumed to be the manufacturing sector and is allocated to the states using the method above. The state values for each of the four SIC groups

- and the CHP and electricity-only facilities are summed to derive state total industrial waste consumption estimates.
- 1990 through 1993: State-level data on waste consumption by CHP and electricity-only facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, and 26 based on unpublished data on waste and biomass from the Form EIA-846, "Manufacturing Energy Consumption Survey 1991 (MECS)." SIC groups 20 and 26 are grouped as "Other" in MECS 1991. The proportions of those two groups in the 1988 and 1994 MECS are averaged and used to estimate the breakout for 1991. These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1992 Census of Manufactures, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2541 Wood Partitions and Fixtures, and Industry 2621 Paper Mills. The state values for each of the four SIC groups and the CHP and electricity-only facilities are summed to derive state total industrial waste consumption estimates.
- 1994 and 1995: State-level data on waste consumption by CHP and electricity-only facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Agricultural Waste" and "Wood and Paper Refuse." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1992 Census of Manufactures. Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The state values for each of the five SIC groups and the CHP and electricityonly facilities are summed to derive state total industrial waste consumption estimates.
- 1996 and 1997: State-level data on waste consumption by CHP and electricity-only facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" or Form EIA-860, "Annual

0

D

Electric Generator Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Agricultural Waste" and "Wood and Paper Refuse." These SIC subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, 1997 Economic Census. In the *Economic Census* the SIC groupings for the state data are replaced by North American Industry Classification System (NAICS) industry groups. The two industry classification systems are not identical, but NAICS groups are chosen that compare with SIC categories as closely as possible. The state series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311311 Sugar Cane Mills, and Industry 311221 Wet Corn Milling (for SIC 20 Food). Industry 321912 Cut Stock, Resawing Lumber, and Planing (for SIC 24 Wood), Industry 3372 Office Furniture Manufacturing (for SIC 25 Furniture), Industry 322122 Newsprint Mills, and Industry 322130 Paperboard Mills (for SIC 26 Paper), and Industry 313 Textile Mills (for Other SIC). The state values for each of the five NAICS group subtotals and the CHP and electricity-only facilities are summed to derive state total industrial waste consumption estimates.

 1998 through 2010: State-level data on waste consumption by CHP and electricity-only facilities from the Form EIA-923, "Power Plant Operations Report," and predecessor forms, in billion Btu are summed and subtracted from the AER/MER U.S. total. The remaining national value is allocated to NAICS industry groups 311, 321, 337, and 322, and "Other" based on data from the Form EIA-846, Manufacturing Energy Consumption Survey, 1998 (for 1998-2001), 2002 (for 2002-2005), and 2006 (for 2006-2010), table entitled "Selected Wood and Wood-Related Products in Fuel Consumption," columns "Agricultural Waste" and "Wood and Paper Refuse." These NAICS subtotals are allocated to the states using state-level series from the U.S. Department of Commerce, Census Bureau, Economic Census for 1997 (1998-2000), 2002 (2001-2005), and 2007 (2006-2010). For 1997 and 2002, the state series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311311 Sugar Cane Mills, and Industry 311221 Wet Corn Milling (for NAICS 311 Food), Industry 321912 Cut Stock, Resawing Lumber, and Planing (for NAICS 321 Wood),

Industry 3372 Office Furniture Manufacturing (for NAICS 337 Furniture), Industry 322122 Newsprint Mills, and Industry 322130 Paperboard Mills (for NAICS 322 Paper), and Industry 313 Textile Mills (for Other NAICS). For 2007, the state series are the "Value of Shipments" data for the specific industries. *Economic Census* data are available at <a href="http://data.census.gov/cedsci/">http://data.census.gov/cedsci/</a>.

2011 forward: State-level data on waste consumption by CHP and electricity-only facilities from the Form EIA-923, "Power Plant Operations Report," and predecessor forms, in billion Btu are summed and subtracted from the AER/MER U.S. total. Twothirds of the remaining national value is allocated using data from U.S. Environmental Protection Agency, Landfill Methane Outreach Program, http://www.epa.gov/lmop/. One-third of the remaining national value is allocated to NAICS industry groups 311, 321, 337, and 322, and "Other" based on data from the Form EIA-846, Manufacturing Energy Consumption Survey, 2010 (for 2011-2013) and 2014 (for 2014 forward), table entitled "Selected Wood and Wood-Related Products in Fuel Consumption," columns "Agricultural Waste" and "Wood and Paper Refuse." These NAICS subtotals are allocated to the states using statelevel data from the U.S. Department of Commerce, Census Bureau, Economic Census for 2012. The state series are the "Value of Shipments" data for the specific industries: 311314 Sugar Cane Manufacturing and 311221 Wet Corn Milling (for NAICS 311 Food), 321912 Cut Stock, Resawing Lumber, and Planing (for NAICS 321 Wood), 3372 Office Furniture Manufacturing (for NAICS 337 Furniture), 322122 Newsprint Mills and 322130 Paperboard Mills (for NAICS 322 Paper), and 313 Textile Mills (for Other NAICS). Economic Census data are available at http://data.census.gov/cedsci/.

### **Electric power sector**

Electric power sector use of wood and waste to generate electricity come from Form EIA-923, "Power Plant Operations Report," and predecessor forms. From 2001 forward, the Btu content of the wood and waste consumed by electric power plants is reported on the data collection forms and used in SEDS. Before 2001, Btu data were not collected by the source data forms and data on electricity generation from wood and waste are used instead. SEDS converts net generation of electricity to equivalent Btu using the fossil-fueled steam-electric plant conversion factor, and the resulting Btu values are entered into SEDS. Rarely,

power plants can use more electricity than they generate from wood and waste energy sources and a negative net generation (and, therefore, Btu consumption) value can be seen in SEDS. For 1960 through 1981, electricity generation from wood and waste are reported combined and for 1982 forward generation or Btu values from each source are reported separately.

SEDS identifies the data series by the following names ("ZZ" in the variable name represents the two-letter state code that differs for each state):

WDEIBZZ = wood consumed by the electric power sector in each state (included in waste energy for 1960 through

1981), in million Btu; and

WSEIBZZ = waste consumed by the electric power sector in each

state (included in wood energy for 1960 through

1981), in million Btu.

SEDS calculates the U.S. totals as the sum of the state data, and sums wood and waste to provide a total (WW) value:

WDEIBUS =  $\Sigma$ WDEIBZZ WSEIBUS =  $\Sigma$ WSEIBZZ

WWEIBZZ = WDEIBZZ + WSEIBZZ

WWEIBUS =  $\Sigma$ WWEIBZZ

#### Data sources

WDEIBZZ — Wood consumed by the electric power sector by state.

- 1960 through 1981: Data included in waste energy sources, see WSEIBZZ.
- 1982 through 2000: EIA, Form EIA-759, "Monthly Power Plant Report," electricity generation from wood converted to Btu using the fossil-fueled steam-electric power plant conversion factor shown in Table B1 (http://www.eia.gov/state/seds/seds-technicalnotes-complete.php).
- 2001 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/

WSEIBZZ — Waste consumed by the electric power sector by state.

• 1960 through 2000: EIA, Form EIA-759, "Monthly Power Plant

Report" and predecessor forms, electricity generation from waste (includes wood energy sources from 1960 through 1981) converted to Btu using the fossil-fueled steam-electric power plant conversion factor shown in Table B1 (http://www.eia.gov/state/ seds/seds-technical-notes-complete.php).

• 2001 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/

### **Totals**

SEDS calculates state total consumption of wood and waste as the sum of the consumption in the residential, commercial, and industrial sectors as well as consumption by the electric power sector. The U.S. total is the sum of the state data:

WDTCBZZ = WDRCBZZ + WDCCBZZ + WDICBZZ + WDEIBZZ

 $WDTCBUS = \Sigma WDTCBZZ$ 

WSTCBZZ = WSCCBZZ + WSICBZZ + WSEIBZZ

WSTCBUS =  $\Sigma$ WSTCBZZ

WWTCBZZ = WDTCBZZ + WSTCBZZ

WWTCBUS =  $\Sigma$ WWTCBZZ

### Other biofuels

Other biofuels is a renewable fuel category that covers a wide range of other renewable fuels that are not included in biodiesel, fuel ethanol, or renewable diesel. Some example fuels include renewable jet fuel, renewable aviation fuel, renewable naphtha, renewable gasoline, renewable propane, and others collected in EIA's survey Form EIA-819, Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene. These other biofuels are made from various biomass feedstocks, including: vegetable oils, animal fats, and recycled grease.

Other biofuels can be used with, or as a substitute for, various petroleum-derived fuels in vehicles or other equipment that operates with the appropriate petroleum fuels. While other sectors consume some smaller amounts of other biofuels, the State Energy Data System (SEDS) assigns all other biofuels consumption to the transportation sector because there is not enough information to allocate consumption to the other sectors. Further, the individual fuel volumes are relatively small and there is not enough publicly available information to split the category into individual biofuels, assign volumes to associated petroleum products supplied, estimate losses and co-products from production, or estimate the states. For 2014 forward, SEDS includes other biofuels consumption for the United States only, as shown in the tables on primary energy consumption by source.

### Physical units

SEDS identifies the renewable diesel consumption data series in physical units using the following name:

BOTCPUS = other biofuels total consumption in the United States, in thousand barrels.

For 2014 forward, the U.S. Energy Information Administration's (EIA) *Monthly Energy Review* estimates U.S. total other biofuels consumption.

SEDS assigns all other biofuels consumption to the transportation sector (BOACP):

BOACPUS = BOTCPUS

### British thermal units (Btu)

SEDS develops Btu other biofuels consumption estimates as the

product of the estimated physical unit consumption by EIA's biodiesel Btu conversion factor (5.359 million Btu per barrel). Btu consumption for the United States is:

BOACBUS = BOACPUS \* 5.359

Energy losses and co-products from renewable diesel production

Unlike fuel ethanol and biodiesel, EIA does not estimate energy losses and co-products from other biofuels production because EIA does not have other biofuels feedstock data.

#### Data sources

BOTCPUS — Other biofuels total consumption in the United States.

- 1960 through 2013: No data available. EIA assumes the values to be zero.
- 2014 forward: EIA, Monthly Energy Review, Table 10.4c.

### **Biofuels**

Biofuels are renewable liquid fuels and blending components produced from biomass feedstocks, primarily used for transportation. SEDS aggregates some data series to be shown in the tables of this report.

SEDS combines the losses and co-products from the production of biodiesel and fuel ethanol to be shown under "biofuels losses and co-products" in the summary tables titled "Primary Energy Consumption Estimates by Source" and "Industrial Sector Energy Consumption Estimates" as follows:

BFLCB = BDLCB + EMLCB

Biofuel consumption is the sum of biodiesel, fuel ethanol, renewable diesel, and other biofuels consumption as well as the losses and coproducts from their production. The sum of the states is not equal to the U.S. total, because other biofuels are only available at the U.S. total:

BFTCBZZ = BDTCBZZ + EMTCBZZ + B1TCBZZ + BFLCBZZ
BFTCBUS = BDTCBUS + EMTCBUS + B1TCBUS + BOTCBUS +
BFLCBUS

### **Biomass total**

Additional calculations are made in SEDS to aggregate some data series to be shown in the tables of this report. Biodiesel, fuel ethanol, renewable diesel, other biofuels, losses and co-products from the production of biodiesel and fuel ethanol, and wood and biomass waste, are combined to be shown under "biomass" in the summary tables titled "Energy Consumption Estimates by Source" as follows. The sum of the states is not equal to the U.S. total, because other biofuels are only available at the U.S. total:

BMTCBZZ = BDLCBZZ + BDTCBZZ + B1TCBZZ + EMLCBZZ +

EMTCBZZ + WWTCBZZ

BMTCBUS = BDLCBUS + BDTCBUS + B1TCBUS + BOTCBUS +

EMLCBUS + EMTCBUS + WWTCBUS

R

# Renewable energy total

Renewable energy subtotals for each consuming sector in billion Btu are calculated for each state and the U.S. totals. In addition, the industrial sector includes energy losses and co-products from the production of biodiesel (BDLCB) and fuel ethanol (EMLCB). The sum of the states in the transportation sector is not equal to the U.S. total, because other biofuels are only available at the U.S. total:

RERCB = GERCB + SORCB + WDRCB

RECCB = EMCCB + GECCB + HYCCB + SOCCB + WWCCB

+ WYCCB

REICB = BDLCB + EMICB + EMLCB + GEICB + HYICB +

SOICB + WWICB + WYICB

REACBZZ = BDACBZZ + B1ACBZZ + EMACBZZ

REACBUS = BDACBUS + B1ACBUS + B0ACBUS + EMACBUS REEIB = GEEGB + HYEGB + S0EGB + WWEIB + WYEGB

Total renewable energy consumption is also calculated for each state and the United States. The sum of the states is not equal to the U.S. total, because other biofuels are only available at the U.S. total:

RETCBZZ = BDLCBZZ + BDTCBZZ + B1TCBZZ + EMLCBZZ +

EMTCBZZ + GETCBZZ + HYTCBZZ + SOTCBZZ +

WWTCBZZ + WYTCBZZ

RETCBUS = BDLCBUS + BDTCBUS + B1TCBUS + BOTCBUS +

EMLCBUS + EMTCBUS + GETCBUS + HYTCBUS

+ SOTCBUS + WWTCBUS + WYTCBUS

In the calculations of all aggregated series, data for any component series that are not available in the earlier years are assumed to be zero.

# Section 6. Electricity

This section describes the energy sources that the electric power sector consumes; end-use electricity consumption (i.e., electricity sold to ultimate customers); estimates of the electrical system energy losses incurred in the generation, transmission, and distribution of electricity; and estimates of net interstate sales of electricity.

The electric power sector consists of electric utilities and independent power producers (electricity-only and combined-heat-and-power (CHP) plants) classified under Sector 22 of the North American Industry Classification System (NAICS) whose primary business is to sell electricity, or electricity and heat, to the public. It does not include commercial or industrial electricity-only or CHP plants that produce electricity and/or heat primarily to support the activities of the commercial or industrial establishments.

# **Electric power sector energy consumption**

### Physical units

The electric power sector uses many different energy sources to produce electricity and/or heat, including: coal, natural gas, petroleum, nuclear, and renewable energy. The State Energy Data System (SEDS) estimates physical units of coal in thousand short tons, natural gas in million cubic feet, and petroleum in thousand barrels, as the electric power sector consumes them. Because wood and waste are measured in a variety of physical units, EIA converts them into the equivalent heat content in British thermal units (Btu). Because comparable measures in physical units for nuclear power, hydroelectric power, wood, waste, geothermal, wind, photovoltaic, and solar thermal energy sources are not available, SEDS uses the energy output of electricity produced from these energy sources, in million kilowatthours. The variable names for these data are as follows ("ZZ" in the variable name represents the two-letter state code that differs for each state):

CLEIPZZ = coal consumed by the electric power sector (described in Section 2 of this report), in thousand short tons;

ELEXPZZ = electricity exported from the United States, in million kilowatthours;

ELIMPZZ = electricity imported into the United States, in million kilowatthours:

GEEGPZZ = electricity produced from geothermal energy by the electric power sector (described in Section 5), in million kilowatthours:

HYEGPZZ = electricity produced from hydroelectric power in the electric power sector (described in Section 5), in million kilowatthours:

NGEIPZZ = natural gas consumed by the electric power sector (described in Section 3), in million cubic feet;

NUEGPZZ = electricity produced from nuclear power in the electric power sector, in million kilowatthours:

PAEIPZZ = petroleum consumed by the electric power sector (described in Section 4), in thousand barrels;

SOEGPZZ = electricity produced from photovoltaic and solar thermal energy sources in the electric power sector (described in Section 5), in million kilowatthours;

WDEIBZZ = wood energy sources consumed by the electric power sector (described in Section 5), in billion Btu;

WSEIBZZ = waste energy sources consumed by the electric power sector (described in Section 5), in billion Btu; and

WYEGPZZ = electricity produced from wind energy by the electric power sector (described in Section 5), in million kilowatthours.

The U.S. totals are the sum of the state data.

### British thermal units (Btu)

SEDS converts all energy sources to Btu to calculate the total amount of energy used to produce electricity and/or heat in the electric power sector. The methods SEDS uses to convert coal, natural gas, petroleum, and renewable energy sources are explained in their respective sections of the SEDS consumption technical notes. The methods for nuclear electric power are described in the following section.

Total energy consumed by the electric power sector is the sum of all primary energy used to generate electricity, including net imports of

electricity across U.S. borders (ELNIBZZ, see page 135). SEDS removes supplemental gaseous fuels from the total to prevent double counting, as they are already accounted for in the energy sources (such as coal) from which they are derived:

TEEIBZZ = CLEIBZZ + ELNIBZZ + GEEGBZZ + HYEGBZZ + NGEIBZZ + NUEGBZZ + PAEIBZZ + SOEGBZZ +

WWEIBZZ + WYEGBZZ - SFEIBZZ

TEEIBUS =  $\Sigma$ TEEIBZZ

### **Nuclear electric power**

SEDS estimates the amount of electricity generated from nuclear power in the electric power sector, in million kilowatthours, for both regulated electric utilities and independent power producers. In the following formulas, "ZZ" in the variable name represents the two-letter state code that differs for each state:

NUEGPZZ = nuclear electricity net generation in the electric power sector, in million kilowatthours.

The U.S. total is the sum of the state data:

 $NUEGPUS = \Sigma NUEGPZZ$ 

Total nuclear energy consumption, NUETP, equals nuclear power used for generating electricity:

NUETPZZ = NUEGPZZ NUETPUS = NUEGPUS

SEDS converts nuclear energy electricity generation, in kilowatthours, to British thermal units (Btu) using annual conversion factors (NUETKUS). SEDS calculates the average U.S. conversion factors reported by nuclear power plants. These U.S. average factors vary from year to year and can be found in the SEDS technical notes, Appendix B- Thermal conversion factors, Table B1, http://www.eia.gov/state/seds/sep use/ notes/use b.pdf.

NUETKUS = factor for converting electricity generated from nuclear power from kilowatthours to Btu.

These formulas use the nuclear conversion factor:

NUEGBZZ = NUEGPZZ \* NUETKUS

 $NUEGBUS = \Sigma NUEGBZZ$ NUETBZZ = NUEGBZZNUETBUS = NUEGBUS

Data sources

NUEGPZZ — Nuclear electricity net generation in the electric power sector by state.

• 1960 through 1977: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data," table titled "Net Generation of Electric Utilities by State and Source."

Ε

- 1978 through 1980: U.S. Energy Information Administration (EIA), Energy Data Reports, "Power Production, Fuel Consumption and Installed Capacity Data," table titled "Net Generation of Electric Utilities by State and Source" (1978) and Table 36 (1979 and 1980).
- 1981 through 1985: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms. Data are published in the EIA, Electric Power Annual 1985, Table 6.
- 1986 forward: EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/ data/eia923/.

NUETKUS — Factor for converting electricity produced from nuclear power from physical units to Btu.

- 1960 through 1984: Calculated annually by EIA by dividing the total heat content consumed in reactors at nuclear plants by the total (net) electricity generated by nuclear plants. The heat content and electricity generation are reported on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others" and Form EIA-412, "Annual Report of Public Electric Utilities," and predecessor forms. The factors for 1982 through 1984 are published in the following:
  - 1982: EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215.
  - 1983 and 1984: EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13.
- 1985 forward: Calculated annually by EIA using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms), and the generation reported on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). Also available in Table A6 of the EIA, *Monthly Energy Review*, http://www.eia.gov/totalenergy/data/monthly/index.php.

### **Electricity imports and exports**

SEDS includes electricity transmitted across U.S. borders with Canada and Mexico in the electric power sector. The variable names for these data are as follows ("ZZ" in the variable name represents the two-letter state code that differs for each state):

ELEXPZZ = electricity exported from the United States by state, in million kilowatthours: and

ELIMPZZ = electricity imported into the United States by state, in million kilowatthours.

The U.S. totals are the sums of the state data:

ELIMPUS =  $\Sigma$ ELIMPZZ ELEXPUS =  $\Sigma$ ELEXPZZ

SEDS calculates electricity net imports as electricity imports minus exports:

ELNIPZZ = ELIMPZZ - ELEXPZZ

ELNIPUS =  $\Sigma$ ELNIPZZ

SEDS converts electricity imports and exports from million kilowatthours (kWh) to billion Btu using the conversion factor of 3.412 thousand Btu per kWh.

ELIMBZZ = ELIMPZZ \* 3.412

ELIMBUS =  $\Sigma$ ELIMBZZ

ELEXBZZ = ELEXPZZ \* 3.412

ELEXBUS =  $\Sigma$ ELEXBZZ

ELNIBZZ = ELIMBZZ - ELEXBZZ

ELNIBUS =  $\Sigma$ ELNIBZZ

#### Data sources

 ${\sf ELEXPZZ} - {\sf Electricity} \ {\sf exported} \ {\sf from} \ {\sf the} \ {\sf United} \ {\sf States} \ {\sf by} \ {\sf state}.$ 

- 1960 through 1981: Economic Regulatory Administration, Staff Reports, "Report on Electric Energy Exchanges with Canada and Mexico." Source data are arranged by the Regional Reliability Council Areas and then by the electric utility. State data were tabulated by aggregating the data of all electric utilities within each state.
- 1982 and 1983: U.S. Energy Information Administration (EIA) state estimates are based on data from Economic Regulatory

- Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, *Electricity Exchanges Across International Borders*.
- 1984 through 1987: EIA state estimates are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data," the Federal Energy Regulatory Commission (FERC) Form 1, and the Bonneville Power Administration Annual Report. State estimates are consistent with national and regional totals published in the ERA, Electricity Transactions Across International Borders.
- 1988 through 2018: EIA state estimates are based on data from National Energy Board of Canada; FERC Form 714, "Annual Electric Balancing Authority Area and Planning Report;" California Energy Commission; and EIA retail sales data. Data for 1990 forward are presented in EIA, State Electricity Profiles, Table 10 "Supply and disposition of electricity" for each state.
- 2019 forward: EIA, Form EIA-111, "Quarterly Electricity Imports and Exports Report," presented in EIA, State Electricity Profiles, Table 10 "Supply and disposition of electricity" for each state.

ELIMPZZ — Electricity imported into the United States by state.

- 1960 through 1981: Economic Regulatory Administration, Staff Reports, "Report on Electric Energy Exchanges with Canada and Mexico." Source data are arranged by the Regional Reliability Council Areas and then by the electric utility. State data were tabulated by aggregating the data of all electric utilities within each state.
- 1982 and 1983: EIA state estimates are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, Electricity Exchanges Across International Borders.
- 1984 through 1987: EIA state estimates are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data," the FERC Form 1, and the Bonneville Power Administration Annual Report. State estimates are consistent with national and regional totals published in the ERA, Electricity Transactions Across International

Borders.

- 1988 through 2018: EIA state estimates are based on data from National Energy Board of Canada; FERC Form 714, "Annual Electric Balancing Authority Area and Planning Report;" California Energy Commission; and EIA retail sales data. Data for 1990 forward are presented in EIA, State Electricity Profiles, Table 10 "Supply and disposition of electricity" for each state.
- 2019 forward: EIA, Form EIA-111, "Quarterly Electricity Imports and Exports Report," presented in EIA, State Electricity Profiles, Table 10 "Supply and disposition of electricity" for each state.

S

## **Electricity consumed by the end-use sectors**

### Physical units

SEDS assumes the amount of electricity sold to ultimate customers to be equal to consumption in the end-use sectors. The U.S. Energy Information Administration (EIA) collects electricity consumed by (sales to ultimate customers in) the four end-use sectors (commercial, industrial, residential, and transportation), in million kilowatthours. The variable names for these data are as follows ("ZZ" in the variable name represents the two-letter state code that differs for each state):

ESRCPZZ = electricity consumed by (sales to ultimate customers in) the residential sector;

ESCMPZZ = electricity sold to a portion of the commercial sector;

ESICPZZ = electricity consumed by (sales to ultimate customers

in) the industrial sector; and

ESACPZZ = electricity consumed by (sales to ultimate customers

in) the transportation sector (2003 forward).

For 2003 forward, SEDS assumes commercial sector electricity consumption to be equal to the electricity sold to the commercial sector:

ESCCPZZ = ESCMPZZ

Before 2003, the source did not have a data series for the transportation sector, and the coverage of the commercial sector was smaller in scope. Instead, EIA reported a data series for "Other" users:

ESOTPZZ = electricity sold to "Other" users (including public street and highway lighting, other public authorities, railroads and railways, and interdepartmental sales).

Before 2003, SEDS uses electricity consumed by transit systems from the U.S. Department of Transportation, Federal Transit Administration, to estimate transportation sector electricity consumption:

ESTRPZZ = electricity consumed by transit systems.

For 1960 through 2002, SEDS defines transportation and commercial electricity consumption as:

ESACPZZ = ESTRPZZ

ESCCPZZ = ESCMPZZ + (ESOTPZZ - ESTRPZZ)

For all years, SEDS calculates total electricity consumption (ESTCPZZ)

as the sum of the four end-use sectors:

ESTCPZZ = ESRCPZZ + ESCCPZZ + ESICPZZ + ESACPZZ

The U.S. totals are the sums of the state data.

#### British thermal units (Btu)

SEDS converts electricity consumption estimates into Btu using a factor of 3.412 thousand Btu per kilowatthour:

ESRCBZZ = ESRCPZZ \* 3.412 ESTCBZZ = ESTCPZZ \* 3.412

The U.S. totals are the sums of the state data.

Residential sector and total consumption of electricity per capita SEDS calculates residential sector and total consumption of electricity per capita as electricity consumption divided by resident population (TPOPP). See energy indicators technical notes at <a href="http://www.eia.gov/state/seds/seds-technical-notes-complete.php">http://www.eia.gov/state/seds/seds-technical-notes-complete.php</a>.

Estimated electricity consumed by (sales to ultimate customers in) the residential sector per capita (ESRPP) for each state and the United States, in kilowatthours, is:

ESRPP = ESRCP / TPOPP \* 1000

Estimated total consumption of electricity per capita (ESTPP) for each state and the United States, in kilowatthours, is:

ESTPP = ESTCP / TPOPP \* 1000

#### Additional calculations

For 2003 forward, EIA has data available for electricity sold for transportation use. Before 2003, SEDS performs additional calculations to provide data for EIA's *Monthly Energy Review* and *Annual Energy Review* to use in estimating transportation electricity use. SEDS calculates the share of electricity sold to the "Other" category of consumers that is used for transportation as:

ESTRSUS = ESTRPUS / ESOTPUS

### Additional notes on electricity sales

1. For 2003 forward, SEDS uses Form EIA-861, "Annual Electric

Power Industry Report" as its source for electricity consumed by the transportation sector. EIA began collecting separate data for the transportation sector in 2003 (previously EIA included these volumes in Commercial and "Other"). In 2003, SEDS uses information from the U.S. Department of Transportation, National Transit Database, <a href="http://www.transit.dot.gov/ntd/ntd-data">http://www.transit.dot.gov/ntd/ntd-data</a>, to supplement the EIA data for three states with missing or incomplete volumes: Missouri, Ohio, and Tennessee.

- 2. SEDS uses Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms for the electricity sales data for 1960 through 1983. Electricity sales data from 1984 forward are from Form EIA-861, "Annual Electric Utility Report." At the national level, data from both forms correspond closely (within 3%) for all end-use sectors. However, differences in the number of survey respondents and the reporting of commercial and industrial sales caused inconsistencies between 1983 and 1984 data in those end-use sectors for some states. See EIA Electric Power Annual, 1991, DOE/EIA-0348(91), p. 130, and An Assessment of the Quality of Selected EIA Data Series, Electric Power Data, DOE/EIA-0292(87), pp. 17-28, for detailed discussions of the reporting differences.
- 3. For 1960 through 1983, electricity sales data for the District of Columbia and Maryland are combined on the survey forms. SEDS estimates separate sales for the District of Columbia and Maryland by using electricity sales data by end-use sector by communities from the FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," filed by the Potomac Electric Power Company (PEPCO). SEDS assumes PEPCO sales to the District of Columbia to be total electricity sales in the District of Columbia. SEDS subtracted electricity sales to the District of Columbia reported by PEPCO on the FERC Form 1 from the Form EIA-826 District of Columbia and Maryland aggregate figures to obtain estimates of Maryland electricity sales by sector. Beginning with 1981 data, electric utilities were no longer required to report sales to specific communities. SEDS obtained sales data for the District of Columbia for 1981 through 1983 which were obtained directly from PEPCO's accounting department.

#### Data sources

ESACPZZ — Electricity consumed by (sales to ultimate customers in) the transportation sector by state.

• 1960 through 2002: Equal to ESTRPZZ.

 2003 forward: EIA, "Electricity Sales to Ultimate Customers by State by Sector by Provider (EIA-861)" spreadsheet at <a href="http://www.eia.gov/electricity/data/state/">http://www.eia.gov/electricity/data/state/</a>, sector name "Total Electric Industry," column "Transportation Sales."

ESCMPZZ — Electricity sold to a portion of the commercial sector by state.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on this page.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics*, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual* (November 1982), Table 125.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual* 1983, Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report."
   Published in the EIA, Electric Power Annual 1988, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual*, Table 27.
- 1990 forward: EIA, "Electricity Sales to Ultimate Customers by State by Sector by Provider (EIA-861)" spreadsheet at <a href="http://www.eia.gov/electricity/data/state/">http://www.eia.gov/electricity/data/state/</a>, sector name "Total Electric Industry," column "Commercial Sales."

ESICPZZ — Electricity consumed by (sales to ultimate customers in) the industrial sector by state.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on this page.

- 1960 through 1975: Federal Power Commission, Electric Power Statistics, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual* (November 1982), Table 126.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company

Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual 1983*, Table 51.

- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report."
   Published in the EIA, Electric Power Annual 1988, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual,* Table 27.
- 1990 forward: EIA, "Electricity Sales to Ultimate Customers by State by Sector by Provider (EIA-861)" spreadsheet at http://www. eia.gov/electricity/data/state/, sector name "Total Electric Industry," column "Industrial Sales."

ESOTPZZ — Electricity sold to (consumed by) the "Other" sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales) by state (through 2002).

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on page 138.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics*, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, Electric Power Annual (November 1982), Table 127.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual* 1983, Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual 1988*, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual*, Table 27.
- 1990 through 2002: EIA, "Electricity Sales to Ultimate Customers by State by Sector by Provider (EIA-861)" spreadsheet at <a href="http://www.eia.gov/electricity/data/state/">http://www.eia.gov/electricity/data/state/</a>, sector name "Total Electric Industry," column "Other Sales."

ESRCPZZ — Electricity consumed by (sales to ultimate customers in) the residential sector by state.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on page 138.

- 1960 through 1975: Federal Power Commission, Electric Power Statistics, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, Electric Power Annual (November 1982), Table 124.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual 1983*, Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report."
   Published in the EIA, Electric Power Annual 1988, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual*, Table 27.
- 1990 forward: EIA, "Electricity Sales to Ultimate Customers by State by Sector by Provider (EIA-861)" spreadsheet at <a href="http://www.eia.gov/electricity/data/state/">http://www.eia.gov/electricity/data/state/</a>, sector name "Total Electric Industry," column "Residential Sales."

ESTRPZZ — Electricity consumed by transit systems by state (through 2002).

Notes: The transit system data include electricity used to operate commuter rail, rapid rail, streetcars or light rail, cable cars, trolley-buses, motorbuses, automated guideways, inclined plane railways, and aerial tramways. These data do not include electricity used by Amtrak. These data are available on a fiscal year basis (July 1 through June 30) for 1979 through 1982 and for calendar years 1983 forward. Some data for 1979 through 1983 were adjusted by EIA on the basis of an analysis of historical trends. Electricity consumption for the District of Columbia for 1976 through 2002 is partially apportioned to Maryland and Virginia on the basis of electricity consumption data from the Washington Metropolitan Area Transit Authority.

• 1960 through 1978: EIA estimates are based on data from:

- The American Public Transit Association (formerly the American Transit Association) annual operating reports.
  Pushkarev, Boris S. and others, Urban Rail in America.
- Pushkarev, Boris S. and others, Urban Rail in America.
   (Bloomington, IN: Indiana University Press, 1982.)
- U.S. Department of Transportation, A Directory of Regularly Scheduled, Fixed Route, Local Public Transportation Service in Urbanized Areas Over 50,000 Population, 1980 and 1981.
- 1979 through 1989: U.S. Department of Transportation, Urban Mass Transportation Administration, National Urban Mass Transportation Statistics, Section 15 Annual Report, table titled "Energy Consumption: Details by Transit System."
  - 1979 and 1980: Table 2.13.1.
  - 1981 and 1982: Table 3.13.1.
  - 1983 through 1989: Table 3.12.
- 1990 through 2002: U.S. Department of Transportation, Federal Transit Administration, *Data Tables for the Section 15 Report Year*, http://www.transit.dot.gov/ntd/ntd-data:
  - 1990: Table 2.12.
  - 1991: Table 13.
  - 1992 through 1997: Table 15.
  - 1998: Table 16.
  - 1999 through 2002: Table 17.

# Electrical system energy losses and net interstate flow of electricity

Electrical system energy losses, identified by "LO" in SEDS, include all losses incurred in the generation, transmission, and distribution of electricity, including plant use and unaccounted-for quantities. At the national level, SEDS defines total losses, LOTCBUS, as the difference between the heat content of all energy consumed by the electric power sector (TEEIBUS) and the heat content of electricity sold to the end-use sectors (ESTCBUS). SEDS calculates total losses for the United States in billion Btu as:

#### LOTCBUS = TEEIBUS - ESTCBUS

At the state level, however, this calculation does not yield losses because electricity can flow from one state to another. If information on bilateral flow of electricity across state lines is available, SEDS could compile a detailed account of the electricity flowing between states and the corresponding energy losses. However, EIA's surveys do not capture this information, and SEDS must make assumptions in the estimation of energy losses and interstate electricity flow.

For 1990 forward, EIA's *State Electricity Profiles* provide data on the supply and disposition of electricity in kilowatthours for each state. Net interstate trade is computed as the state's total electricity supply less all within-state electricity disposition (i.e., electricity sales to ultimate customers, direct use, international exports, and estimated losses).

Before 1990, SEDS continues to use the old method of first estimating electrical system energy losses and then deriving net interstate electricity flow (see "1960 through 1989" below).

### 1990 forward

EIA's *State Electricity Profiles* publish net interstate trade of electricity for each state. SEDS multiplies the series by -1 to convert to SEDS net interstate flow electricity:

ELISPZZ = net interstate flow of electricity for each state, ZZ, in million kilowatthours.

A positive value indicates net inflow of electricity, and a negative value indicates net outflow. The sum of net interstate flow for all states, ELISPUS, is zero.

To estimate the Btu value of net interstate flow (including attributed

W

Ε

energy losses), ELISBZZ, SEDS identifies states with net electricity outflow (i.e., negative ELISPZZ) and states with net electricity inflow (i.e., positive ELISPZZ). For states with net electricity outflow, SEDS assumes the average heat content of the outflow to be the same as the average heat content of the energy used to produce electricity for in-state use. That is, SEDS allocates total energy consumed by the electric power sector, TEEIBZZ, to in-state electricity sales and outflow according to their physical unit shares:

```
ELISBZZ = - (TEEIBZZ * (|ELISPZZ| / (|ELISPZZ| + ESTCPZZ))) for states with net electricity outflow
```

SEDS derives an annual average outflow Btu-to-kilowatthour ratio as the sum of ELISBZZ for all states with net electricity outflow divided by the sum of their ELISPZZ. SEDS uses this ratio to estimate the Btu value of net inflow of electricity:

```
ELISBZZ = ELISPZZ * (Average outflow Btu-to-kilowatthour ratio)
```

for states with net electricity inflow

SEDS calculates total energy used to generate the electricity consumed in the state, TEESBZZ, by removing the outflow energy (for the states with net outflow) or adding the inflow energy (for the states with net inflow) from/to the total energy consumed by the electric power sector in the state. Because ELISBZZ is negative for the net outflow states, there is only one formula:

```
TEESBZZ = TEEIBZZ + ELISBZZ
```

Because the sum of net interstate flow is zero at the national level, TEESBUS, the sum of TEESBZZ, equals TEEIBUS. SEDS defines electrical system energy losses, LOTCBZZ, as the total energy used to generate the electricity consumed in the state less the heat content of the electricity sales to ultimate customers:

```
LOTCBZZ = TEESBZZ - ESTCBZZ
```

By definition, the sum of LOTCBZZ equals LOTCBUS. SEDS then allocates electrical system energy losses to the four end-use sectors according to the electricity sales shares:

```
LORCBZZ = LOTCBZZ * (ESRCBZZ / ESTCBZZ)

LOCCBZZ = LOTCBZZ * (ESCCBZZ / ESTCBZZ)

LOCCBZZ = LOTCBZZ * (ESICBZZ / ESTCBZZ)

LOACBZZ = LOTCBZZ * (ESACBZZ / ESTCBZZ)
```

The U.S. totals are the sums of all the states' losses.

#### 1960 through 1989

Because of insufficient data, efforts to estimate net interstate trade before 1990 were not successful. The earlier methodology created by SEDS continues to be used for data years 1960 through 1989. This methodology first estimates the electrical system energy losses for the states, and then calculates net interstate flow.

Because Alaska and Hawaii have no exchanges of electricity with other states, their electrical system energy losses are simply the difference between all energy consumed by the electric power sector and the heat content of the electricity sales to ultimate customers:

```
LOTCBAK = TEEIBAK - ESTCBAK
LOTCBHI = TEEIBHI - ESTCBHI
```

An annual losses-to-sales ratio is created for the aggregate of the contiguous 48 states plus the District of Columbia by dividing the aggregate electrical system energy losses with the aggregated electricity sales to ultimate customers:

```
LOTCB48 = LOTCBUS - (LOTCBAK + LOTCBHI)
ESTCB48 = ESTCBUS - (ESTCBAK + ESTCBHI)
ELLSS48 = LOTCB48 / ESTCB48
```

This ratio is fairly constant over time, ranging from a minimum of 2.3 in 1987 to a maximum of 2.5 in 1960. The ratio is applied to total electricity sales to ultimate customers and to electricity sales to ultimate customers by end-use sector in each of the 48 contiguous states and the District of Columbia:

```
LOTCBZZ = ESTCBZZ * ELLSS48
```

Electrical system energy losses are allocated to the four end-use sectors according to the sales shares:

```
LORCBZZ = LOTCBZZ * (ESRCBZZ / ESTCBZZ)

LOCCBZZ = LOTCBZZ * (ESCCBZZ / ESTCBZZ)

LOICBZZ = LOTCBZZ * (ESICBZZ / ESTCBZZ)

LOACBZZ = LOTCBZZ * (ESACBZZ / ESTCBZZ)
```

Losses for the United States are the sums of all the states' losses.

Net interstate flow of electricity is then calculated as the difference between total electricity sales plus attributed losses and the total energy consumption by the electric power sector within each state.

```
ELISBZZ = (ESTCBZZ + LOTCBZZ) - TEEIBZZ
```

The sum of ELISBZZ is zero.

S

### Data sources

ELISPZZ — Net interstate flow of electricity for each state.

- 1960 through 1989: Not available.
- 1990 forward: EIA, *State Electricity Profiles*, http://www.eia.gov/electricity/state/, Table 10.

# Section 7. Total energy

The preceding sections of this document describe how the U. S. Energy Information Administration (EIA) estimates state-level energy consumption by individual source in the State Energy Data System (SEDS). This section describes how SEDS sums all energy sources in Btu to create total energy consumption and end-use consumption estimates.

# **Total energy consumption**

SEDS defines total energy consumption by state as the sum of all energy sources consumed. The total includes all primary energy sources used directly by the energy-consuming sectors (residential, commercial, industrial, transportation, and electric power), as well as net interstate flow of electricity (ELISB) and net imports of electricity (ELNIB).

Energy sources can be categorized as non-renewable and renewable sources:

#### Non-renewable sources

- coal (CL)
- net imports of coal coke (United States only)
- · natural gas excluding supplemental gaseous fuels (NN)
- petroleum products excluding biofuels (PM)
- nuclear electric power (NU)

#### Renewable sources

- biodiesel (BD)
- fuel ethanol minus denaturant (EM)
- geothermal direct use energy and geothermal heat pumps (GE)
- conventional hydroelectric power (HY)
- renewable diesel (B1)
- solar thermal direct use energy and photovoltaic electricity net generation (SO)
- electricity produced by wind (WY)
- wood and wood-derived fuels (WD)
- · biomass waste (WS)
- · other biofuels (BO) (United States only)

Sections 2 through 4 describe the definitions and calculations for the total consumption of each fossil fuel energy source (coal, natural gas, and petroleum). Section 5 describes renewable energy total consumption (RETCB). Section 6 describes nuclear electric power (NUETB), net imports of electricity (ELNIB), and net interstate flow of electricity (ELISB).

SEDS calculates total consumption of fossil fuels in billion Btu (FFTCB) for each state and the United States as:

FFTCBZZ = CLTCBZZ + NNTCBZZ + PMTCBZZ

FFTCBUS = CLTCBUS + CCNIBUS + NNTCBUS + PMTCBUS

SEDS calculates total energy consumption in billion Btu (TETCB) for each state and the United States as:

TETCBZZ = FFTCBZZ + NUETBZZ + RETCBZZ + ELNIBZZ +

ELISBZZ

TETCBUS = FFTCBUS + NUETBUS + RETCBUS + ELNIBUS

## Total energy consumption by end use

Total energy consumption for each of the four end-use sectors (residential, commercial, industrial, and transportation) is the sum of all energy sources consumed by the sector. Each sector total includes primary energy consumed directly by the sector, electricity sales to the sector (sales to ultimate customers), and electrical system energy losses (which are allocated proportionally to the electricity sales sent to each sector).

Unless otherwise specified, EIA publishes energy data in the same way as they are consumed; that is, natural gas includes supplemental gaseous fuels that are commingled with the natural gas, and petroleum products include biofuels that are blended into the products.

In general, total energy consumed by the four end-use sectors by state and for the United States as a whole include the following:

- coal (CL)
- natural gas (NG), which includes supplemental gaseous fuels
- all petroleum products (PA), which include biofuels blended into motor gasoline, distillate fuel oil, and any other petroleum products
- geothermal direct use energy and geothermal heat pumps (GE)
- conventional hydroelectric power (HY)
- · solar thermal direct use energy and photovoltaic electricity net generation (SO)
- wood (WD)
- biomass waste (WS)
- electricity sales (ES)
- electrical system energy losses (LO)

To adjust for the underreporting of fuel ethanol in motor gasoline consumption before 1993 and biodiesel in distillate fuel oil consumption before 2009. SEDS adds fuel ethanol consumption to total consumption for the commercial, industrial, and transportation sectors before 1993 and biodiesel consumption to total consumption for the transportation sector before 2009. Fuel ethanol data before 1981 and biodiesel data before 2001 are not available and EIA assumes them to be zero.

SEDS removes supplemental gaseous fuels (SF) from total energy for the residential, commercial, industrial, and electric power sectors to prevent double counting. SEDS accounts for supplemental gaseous fuels as part of the fossil fuels that they are derived from, and also as

part of natural gas.

Specific details for each of the end-use sectors are described below.

### **Residential sector**

1960 forward:

**TERCB** = CLRCB + NGRCB + PARCB + GERCB + SORCB + WDRCB + ESRCB + LORCB - SFRCB

#### **Commercial sector**

1960 through 1992:

= CLCCB + NGCCB + PACCB + EMCCB + GECCB + TECCB HYCCB + SOCCB + WWCCB + ESCCB + LOCCB -**SFCCB** 

1993 forward:

**TECCB** = CLCCB + NGCCB + PACCB + GECCB + HYCCB + SOCCB + WWCCB + WYCCB + ESCCB + LOCCB - SFCCB

### Industrial sector

The industrial sector includes energy losses and co-products from the production of fuel ethanol (EMLCB) and biodiesel (BDLCB). It includes net imports of coal coke (CCNIBUS) in the U.S. total but not in the individual state estimates because there is no reliable method to allocate amounts to the states.

1960 through 1992:

TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + EMICBUS + EMLCBUS + GEICBUS + HYICBUS +

SOICBUS + WWICBUS + ESICBUS + LOICBUS -

**SFINBUS** 

TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + EMICBZZ +

EMLCBZZ + GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ + ESICBZZ + LOICBZZ - SFINBZZ

1993 forward:

TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS +

BFLCBUS + GEICBUS + HYICBUS + SOICBUS + WWICBUS + WYICBUS + ESICBUS + LOICBUS -

**SFINBUS** 

TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + BFLCBZZ +
GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ +
WYICBZZ +
ESICBZZ + LOCIBZZ - SFINBZZ

### **Transportation sector**

1960 through 1992:

TEACB = CLACB + NGACB + PAACB + EMACB + ESACB + LOACB

1993 through 2008:

TEACB = CLACB + NGACB + PAACB + BDACB + EMACB + ESACB + LOACB

2009 forward:

TEACB = CLACB + NGACB + PAACB + ESACB + LOACB

# **Total end-use sector energy consumption**

Total end-use sector energy consumption is the sum of the four end-use sectors' energy consumption, represented by the 3rd and 4th characters "TX":

TETXB = TEACB + TECCB + TEICB + TERCB

SEDS calculates TETXB as the sum of: (1) the direct consumption of primary energy sources by end-use sector; (2) the electricity sales to ultimate customers by end-use sector; and (3) the losses incurred through the generation, transmission, and distribution of electricity, which SEDS allocates to the four end-use sectors proportionally to electricity sales by end-use sector. On the other hand, TETCB is the sum of the total consumption of each primary energy source, which includes both direct end-use consumption and consumption by the electric power sector for electricity. Independent rounding of the components causes minor differences between TETXB and TETCB.

### **End-use energy consumption**

SEDS calculates end-use energy consumption estimates in the four enduse sectors as the sum of the primary energy consumed within each sector and the amount of electricity sales to ultimate customers from the electric power sector sold to each sector. End-use energy consumption excludes each sector's share of electrical system energy losses from the electric power sector that occur during the generation, transmission, and distribution of electricity to end users. This series is called end-use energy consumption and represented by "TN."

SEDS calculates end-use energy consumption in the residential, commercial, industrial, and transportation sectors as:

TNRCB = TERCB - LORCB TNCCB = TECCB - LOCCB TNICB = TEICB - LOICB TNACB = TEACB - LOACB

Total end-use energy consumption is the sum of the sectors:

TNTCB = TNRCB + TNCCB + TNICB + TNACB

# **Total energy consumption per capita**

SEDS estimates the energy consumed per person residing in each state and in the United States by dividing the total energy series ("TE") by the resident population, as published by the U.S. Department of Commerce, Census Bureau. Before 1980, the U.S. total population estimates may be revised more frequently than the state population estimates, so the sum of the available states' population estimates may not equal the U.S. totals. Therefore, SEDS uses the U.S. total population estimates instead of the sum of the states' values. See energy indicators technical notes for more information on population data at <a href="http://www.eia.gov/state/seds/seds-technical-notes-complete.php">http://www.eia.gov/state/seds/seds-technical-notes-complete.php</a>. The variable names for the series are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

TPOPPZZ = resident population estimates of each state; and TPOPPUS = resident population estimates of the United States.

Estimated energy consumption per capita for each state and the United States, in million Btu, (TETPB) is:

TETPB = TETCB/TPOPP

SEDS estimates total energy consumption per capita for the four enduse sectors as:

TERPB = TERCB / TPOPP TECPB = TECCB / TPOPP TEIPB = TEICB / TPOPP TEAPB = TEACB / TPOPP

#### Data sources

TPOPPUS — Resident population estimates of the United States. July 1 estimates for all years.

- 1960 through 2009: U.S. Department of Commerce, Census Bureau, National Intercensal Tables, http://www.census.gov/ programs-surveys/popest/data/tables.All.html.
- 2010 forward: U.S. Department of Commerce, Census Bureau, National Population Totals, http://www.census.gov/programssurveys/popest/data/tables.All.html.

TPOPPZZ — Resident population estimates by state. July 1 estimates for all years.

- 1960 through 2009: U.S. Department of Commerce, Census Bureau, State Intercensal Tables, http://www.census.gov/ programs-surveys/popest/data/tables.All.html.
- 2010 forward: U.S. Department of Commerce, Census Bureau, State Population Totals, http://www.census.gov/programs-surveys/ popest/data/tables.All.html.

# Total energy consumption per real dollar of gross domestic product

For 1997 forward, SEDS estimates total energy consumption per dollar of real gross domestic product (GDP) as total energy consumption (TETCB) divided by real GDP (GDPRX) from the U.S. Department of Commerce, Bureau of Economic Analysis (BEA).

BEA publishes both national-level and state-level real GDP data in its "Regional Economic Accounts" dataset. However, there is a difference in the coverage between the two series. The difference between the sum of the states' GDP and the U.S-level GDP reflects federal military and civilian activity located overseas. For details, see BEA's Regional Economic Accounts: Methodologies at <a href="http://www.bea.gov/regional/methods.cfm">http://www.bea.gov/regional/methods.cfm</a>.

The variable names for the series are ("ZZ" in the variable name represents the two-letter state code that differs for each state):

GDPRXUS = real gross domestic product of the United States in million chained (2017) dollars; and

GDPRXZZ = real gross domestic product by state in million chained (2017) dollars.

Estimated energy consumption per real chained (2017) dollar for each state and the United States, in thousand Btu per chained (2017) dollar, (TETGR) is:

TETGR = TETCB/GDPRX

#### Data sources

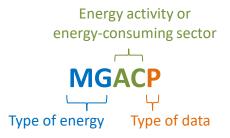
GDPRXZZ — Real gross domestic product by state and the United States in million chained (2017) dollars.

 1997 forward: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Accounts, <a href="http://apps.bea.gov/itable/?ReqID=70&step=1">http://apps.bea.gov/itable/?ReqID=70&step=1</a>, select Annual Gross Domestic Product by State, Gross Domestic Product (GDP) summary (SAGDP1), All Areas, and Real GDP (millions of chained 2017 dollars).

# Appendix A. Mnemonic series names (MSN)

This appendix contains an alphabetical listing of the State Energy Data System (SEDS) energy consumption variables, called MSNs. For each variable, SEDS provides: a brief description; unit of measure; and the formulas used to create the variable. Variables that are entered directly from other sources, but not calculated by SEDS, are independent variables. Formulas for the state calculations have "ZZ" following the variable name, where "ZZ" represents the two-letter state code. The formulas for the United States have "US" following the variable name. If the formula for the states and the United States are the same, only one formula is shown.

The SEDS MSN variables have five-character names that generally consist of the following components:



See Section 1 of the SEDS technical notes for explanation of the five-character MSN code descriptions.

**Table A1. Consumption variables** 

MSN	Description	Unit	Formula
ABICB	Aviation gasoline blending components consumed by the industrial sector.	Billion Btu	ABICBZZ = ABTCBZZ ABICBUS = ABTCBUS
ABICP	Aviation gasoline blending components consumed by the industrial sector.	Thousand barrels	ABICPZZ = ABTCPZZ ABICPUS = ABTCPUS
ABTCB	Aviation gasoline blending components total consumption.	Billion Btu	ABTCBZZ = ABTCPZZ * $5.048$ ABTCBUS = $\Sigma$ ABTCBZZ
ABTCP	Aviation gasoline blending components total consumption.	Thousand barrels	ABTCPZZ = (COCAPZZ / COCAPUS) * ABTCPUS ABTCPUS is independent.
AICAP	Aluminum ingot production capacity.	Short tons	AICAPZZ is independent. AICAPUS = $\Sigma$ AICAPZZ
ARICB	Asphalt and road oil consumed by the industrial sector.	Billion Btu	ARICBZZ = ARICPZZ * $6.636$ ARICBUS = $\Sigma$ ARICBZZ
ARICP	Asphalt and road oil consumed by the industrial sector.	Thousand barrels	ARICPZZ = ASICPZZ + RDICPZZ ARICPUS = $\Sigma$ ARICPZZ
ARTCB	Asphalt and road oil total consumption.	Billion Btu	ARTCBZZ = ARICBZZ ARTCBUS = ARICBUS
ARTCP	Asphalt and road oil total consumption.	Thousand barrels	ARTCPZZ = ASTCPZZ + RDTCPZZ ARTCPUS = ΣARTCPZZ
ARTXB	Asphalt and road oil total end-use consumption.	Billion Btu	ARTXBZZ = ARICBZZ ARTXBUS = ARICBUS
ARTXP	Asphalt and road oil total end-use consumption.	Thousand barrels	ARTXPZZ = ARICPZZ ARTXPUS = ARICPUS
ASICP	Asphalt consumed by the industrial sector.	Thousand barrels	Before 2009: ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS ASICPUS = ΣASICPZZ 2009 forward: ASICPZZ = (ASPRPZZ / ASPRPUS) * ASTCPUS ASICPUS = ΣASICPZZ
ASINP	Asphalt sold to the industrial sector.	Short tons	ASINPZZ is independent. ASINPUS = $\Sigma$ ASINPZZ
ASPRP	Asphalt (hot-mix and warm-mix) production excluding reclaimed asphalt pavement.	Short tons	ASPRPZZ is independent. ASPRPUS = ΣASPRPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
ASTCP	Asphalt total consumption.	Thousand barrels	ASTCPZZ = ASICPZZ ASTCPUS is independent.
AVACB	Aviation gasoline consumed by the transportation sector.	Billion Btu	AVACBZZ = AVACPZZ * $5.048$ AVACBUS = $\Sigma$ AVACBZZ
AVACP	Aviation gasoline consumed by the transportation sector.	Thousand barrels	AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUS AVACPUS = $\Sigma$ AVACPZZ
AVMIP	Aviation gasoline issued to the military (through 2014).	Thousand barrels	AVMIPZZ is independent. AVMIPUS = $\Sigma$ AVMIPZZ
AVNMM	Aviation gasoline sold to nonmilitary users (through 2014).	Thousand gallons	AVNMMZZ is independent. AVNMMUS = $\Sigma$ AVNMMZZ
AVNMP	Aviation gasoline sold to nonmilitary users (through 2014).	Thousand barrels	AVNMPZZ = AVNMMZZ / 42 AVNMPUS = $\Sigma$ AVNMPZZ
AVTCB	Aviation gasoline total consumption.	Billion Btu	AVTCBZZ = AVACBZZ AVTCBUS = $\Sigma$ AVTCBZZ
AVTCP	Aviation gasoline total consumption.	Thousand barrels	AVTCPZZ = AVACPZZ AVTCPUS is independent.
AVTTM	Aviation gasoline sold to all users (2015 forward).	Thousand gallons	AVTTMZZ is independent. AVTTMUS = $\Sigma$ AVTTMZZ
AVTTP	Aviation gasoline total sales to the transportation sector.	Thousand barrels	Before 2015: AVTTPZZ = AVMIPZZ + AVNMPZZ AVTTPUS = $\Sigma$ AVTTPZZ 2015 forward: AVTTPZZ = AVTTMZZ / 42 AVTTPUS = $\Sigma$ AVTTPZZ
AVTXB	Aviation gasoline total end-use consumption.	Billion Btu	AVTXBZZ = AVACBZZ AVTXBUS = $\Sigma$ AVTXBZZ
AVTXP	Aviation gasoline total end-use consumption.	Thousand barrels	AVTXPZZ = AVACPZZ AVTXPUS = $\Sigma$ AVTXPZZ
B1ACB	Renewable diesel consumed by the transportation sector.	Billion Btu	B1ACBZZ = B1ACPZZ * $5.494$ B1ACBUS = $\Sigma$ B1ACBZZ
B1ACP	Renewable diesel consumed by the transportation sector.	Thousand barrels	B1ACPZZ = B1TCPZZ B1ACPUS = $\Sigma$ B1ACPZZ

MSN	Description	Unit	Formula
B1SUB	Renewable diesel product supplied.	Billion Btu	B1SUBZZ = B1SUPZZ * 5.494 B1SUBUS = ΣB1SUBZZ
B1SUP	Renewable diesel product supplied.	Thousand barrels	B1SUPZZ = (B1TCPZZ / B1TCPUS) * B1SUPUS B1SUPUS is independent.
B1TCB	Renewable diesel total consumption.	Billion Btu	B1TCBZZ = B1TCPZZ * $5.494$ B1TCBUS = $\Sigma$ B1TCBZZ
B1TCP	Renewable diesel total consumption.	Thousand barrels	B1TCPZZ is independent. B1TCPUS is independent.
BDACB	Biodiesel consumed by the transportation sector.	Billion Btu	BDACBZZ = BDACPZZ * 5.359 BDACBUS = ΣBDACBZZ
BDACP	Biodiesel consumed by the transportation sector.	Thousand barrels	BDACPZZ = BDTCPZZ BDACPUS = $\Sigma$ BDACPZZ
BDLCB	Energy losses and co-products from the production of biodiesel.	Billion Btu	BDLCBZZ is independent. BDLCBUS is independent.
BDSUB	Biodiesel product supplied.	Billion Btu	BDSUBZZ = BDSUPZZ * $5.359$ BDSUBUS = $\Sigma$ BDSUBZZ
BDSUP	Biodiesel product supplied.	Thousand barrels	BDSUPZZ = (BDTCPZZ / BDTCPUS) * BDSUPUS BDSUPUS is independent.
BDTCB	Biodiesel total consumption.	Biliion Btu	BDTCBZZ = BDTCPZZ * $5.359$ BDTCBUS = $\Sigma$ BDTCBZZ
BDTCP	Biodiesel total consumption.	Thousand barrels	BDTCPZZ is independent. BDTCPUS is independent.
BFLCB	Energy losses and co-products from the production of biofuels.	Billion Btu	BFLCBZZ = BDLCBZZ + EMLCBZZ BFLCBUS = BDLCBUS + EMLCBUS
BFTCB	Biofuels total consumption.	Billion Btu	BFTCBZZ = BDTCBZZ + BFLCBZZ + B1TCBZZ + EMTCBZZ BFTCBUS = BDTCBUS + BFLCBUS + BOTCBUS + B1TCBUS + EMTCBUS
BMCAS	Biomass generating units capacity factor.	Percent	BMCASZZ is independent. BMCASUS is independent.
BMTCB	Biomass total consumption.	Billion Btu	BMTCBZZ = BFTCBZZ+ WWTCBZZ BMTCBUS = BFTCBUS + WWTCBUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
BOACBUS	Other biofuels consumed by the transportation sector for the United States.	Billion Btu	BOACBUS = BOACPUS * 5.359
BOACPUS	Other biofuels consumed by the transportation sector for the United States.	Thousand barrels	BOACPUS = BOTCPUS
BOSUBUS	Other biofuels product supplied for the United States.	Billion Btu	BOSUBUS = BOSUPUS * 5.359
BOSUPUS	Other biofuels product supplied for the United States.	Thousand barrels	BOSUPUS is independent.
BOTCBUS	Other biofuels total consumption for the United States.	Billion Btu	BOTCBUS = BOTCPUS * 5.359
BOTCPUS	Other biofuels total consumption for the United States.	Thousand barrels	BOTCPUS is independent.
BQICB	Normal butane consumed by the industrial sector.	Billion Btu	BQICBZZ = BQTCBZZ BQICBUS = BQTCBUS
BQICP	Normal butane consumed by the industrial sector.	Thousand barrels	BQICPZZ = BQTCPZZ BQICPUS = BQTCPUS
BQTCB	Normal butane total consumption.	Billion Btu	BQTCBZZ = BQTCPZZ * $4.353$ BQTCBUS = $\Sigma$ BQTCBZZ
BQTCP	Normal butane total consumption.	Thousand barrels	BQTCPZZ is independent. BQTCPUS is independent.
BTCAS	Battery storage generating units usage factor.	Percent	BTCASZZ is independent. BTCASUS is independent.
BTGBP	Battery storage units net summer capacity in all sectors.	Thousand kilowatts	BTGBPZZ is independent. BTGBPUS is independent.
BTVHN	Battery electric vehicle (BEV) light-duty stocks.	Thousands of registered vehicles	BTVHNZZ is independent. BTVHNUS = $\Sigma$ BTVHNZZ
BTVHP	Electricity consumed for battery electric vehicle (BEV) use.	Million kilowatthours	BTVHPZZ is independent. BTVHPUS = $\Sigma$ BTVHPZZ

MSN	Description	Unit	Formula
BXSUB	Total biofuels (excluding fuel ethanol) product supplied.	Billion Btu	Before 2011:  BXSUBZZ = BDSUBZZ  BXSUBUS = BDSUBUS  2011 forward:  BXSUBZZ = BDSUBZZ + B1SUBZZ  2011 through 2013:  BXSUBUS = BDSUBUS + B1SUBUS  2014 forward:  BXSUBUS = BDSUBUS + B1SUBUS + BOSUBUS
BXSUP	Total biofuels (excluding fuel ethanol) product supplied.	Thousand barrels	Before 2011: BXSUPZZ = BDSUPZZ 2011 forward: BXSUPZZ = BDSUPZZ + B1SUPZZ 2021 forward: BXSUPUS is independent.
BYICB	Butylene from refineries consumed by the industrial sector.	Billion Btu	BYICBZZ = BYTCBZZ BYICBUS = BYTCBUS
BYICP	Butylene from refineries consumed by the industrial sector.	Thousand barrels	BYICPZZ = BYTCPZZ BYICPUS = BYTCPUS
BYTCB	Butylene from refineries total consumption.	Billion Btu	BYTCBZZ = BYTCPZZ * 4.377 BYTCBUS = ΣBYTCBZZ
BYTCP	Butylene from refineries total consumption.	Thousand barrels	BYTCPZZ is independent. BYTCPUS is independent.
CCEXBUS	Coal coke exported from the United States.	Billion Btu	CCEXBUS = CCEXPUS * 24.80
CCEXPUS	Coal coke exported from the United States.	Thousand short tons	CCEXPUS is independent.
CCIMBUS	Coal coke imported into the United States.	Billion Btu	CCIMBUS = CCIMPUS * 24.80
CCIMPUS	Coal coke imported into the United States.	Thousand short tons	CCIMPUS is independent.
CCNIBUS	Coal coke net imports into the United States.	Billion Btu	CCNIBUS = CCIMBUS - CCEXBUS
CCNIPUS	Coal coke net imports into the United States.	Thousand short tons	CCNIPUS = CCIMPUS - CCEXPUS
CGVAV	Value of shipments (value added prior to 2001) for the corrugated and solid fiber box manufacturing industry.	Million dollars	CGVAVZZ is independent. CGVAVUS = $\Sigma$ CGVAVZZ
CLACB	Coal consumed by the transportation sector.	Billion Btu	CLACBZZ = CLACPZZ * CLACKZZ CLACBUS = $\Sigma$ CLACBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
CLACK	Factor for converting coal consumed by the transportation sector from physical units to Btu.	Million Btu per short ton	CLACKZZ is independent. CLACKUS = CLACBUS / CLACPUS
CLACP	Coal consumed by the transportation sector.	Thousand short tons	CLACPZZ = (CLICPZZ / CLICPUS) * CLACPUS CLACPUS is independent.
CLCAS	Coal generating units capacity factor.	Percent	CLCASZZ is independent. CLCASUS is independent.
CLCCB	Coal consumed by the commercial sector.	Billion Btu	CLCCBZZ = CLCCPZZ * CLHCKZZ CLCCBUS = $\Sigma$ CLCCBZZ
CLCCP	Coal consumed by the commercial sector.	Thousand short tons	Before 2008: CLCCPZZ = CLHCPZZ - CLRCPZZ CLCCPUS = ΣCLCCPZZ 2008 forward: CLCCPZZ = (CLHDPZZ / CLHDPUS) * CLHCPUS CLCCPUS = ΣCLCCPZZ
CLEIB	Coal consumed by the electric power sector.	Billion Btu	CLEIBZZ = CLEIPZZ $*$ CLEIKZZ CLEIBUS = $\Sigma$ CLEIBZZ
CLEIK	Factor for converting coal consumed by the electric power sector from physical units to Btu.	Million Btu per short ton	CLEIKZZ is independent. CLEIKUS = CLEIBUS / CLEIPUS
CLEIP	Coal consumed by the electric power sector.	Thousand short tons	CLEIPZZ is independent. CLEIPUS = $\Sigma$ CLEIPZZ
CLHCB	Coal consumed by the residential and commercial sectors.	Billion Btu	CLHCBZZ = CLCCBZZ + CLRCBZZ CLHCBUS = $\Sigma$ CLHCBZZ
CLGBP	Coal generating units net summer capacity in all sectors.	Thousand kilowatts	CLGBPZZ is independent. CLGBPUS is independent.
CLHCK	Factor for converting coal consumed by the residential and commercial sectors from physical units to Btu.	Million Btu per short ton	CLHCKZZ is independent. CLHCKUS = CLHCBUS / CLHCPUS
CLHCP	Coal consumed by the residential and commercial sectors (commercial sector from 2008 forward).	Thousand short tons	CLHCPZZ = (CLHDPZZ / CLHDPUS) * CLHCPUS CLHCPUS is independent.
CLHDP	Coal distributed to the residential and commercial sectors (consumed by the commercial sector for 2008 forward).	Thousand short tons	CLHDPZZ is independent. CLHDPUS = ΣCLHDPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
CLICB	Coal consumed by the industrial sector.	Billion Btu	CLICBZZ = CLKCBZZ + CLOCBZZ CLICBUS = $\Sigma$ CLICBZZ
CLICP	Coal consumed by the industrial sector.	Thousand short tons	CLICPZZ = CLKCPZZ + CLOCPZZ CLICPUS = $\Sigma$ CLICPZZ
CLKCB	Coal consumed at coke plants (coking coal).	Billion Btu	CLKCBZZ = CLKCPZZ * CLKCKZZ CLKCBUS = $\Sigma$ CLKCBZZ
CLKCK	Factor for converting coal consumed at coke plants from physical units to Btu.	Million Btu per short ton	CLKCKZZ is independent. CLKCKUS = CLKCBUS / CLKCPUS
CLKCP	Coal consumed by coke plants (coking coal).	Thousand short tons	CLKCPZZ = (CLKDPZZ / CLKDPUS) * CLKCPUS CLKCPUS is independent.
CLKDP	Coal distributed to coke plants (coking coal) (consumption for 2008 forward).	Thousand short tons	CLKDPZZ is independent. CLKDPUS = $\Sigma$ CLKDPZZ
CLOCB	Coal consumed by industrial users other than coke plants.	Billion Btu	CLOCBZZ = CLOCPZZ * CLOCKZZ CLOCBUS = $\Sigma$ CLOCBZZ
CLOCK	Factor for converting coal consumed by industrial users other than coke plants from physical units to Btu.	Million Btu per short ton	CLOCKZZ is independent. CLOCKUS = CLOCBUS / CLOCPUS
CLOCP	Coal consumed by industrial users other than coke plants.	Thousand short tons	CLOCPZZ = (CLODPZZ / CLODPUS) * CLOCPUS CLOCPUS is independent.
CLODP	Coal distributed to industrial users other than coke plants (consumption for 2008 forward).	Thousand short tons	CLODPZZ is independent. CLODPUS = $\Sigma$ CLODPZZ
CLRCB	Coal consumed by the residential sector.	Billion Btu	CLRCBZZ = CLRCPZZ * CLHCKZZ CLRCBUS = $\Sigma$ CLRCBZZ
CLRCP	Coal consumed by the residential sector.	Thousand short tons	Before 2008: CLRCPZZ = CLHCPZZ * CLRCSUS CLRCPUS = ΣCLRCPZZ 2008 forward: CLRCPZZ = 0 CLRCPUS = 0
CLRCSUS	The share of residential and commercial coal consumed by the residential sector for the United States.	Percent	CLRCSUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
CLTCB	Coal total consumption.	Billion Btu	CLTCBZZ = CLACBZZ + CLCCBZZ + CLEIBZZ + CLICBZZ + CLRCBZZ CLTCBUS = ΣCLTCBZZ
CLTCP	Coal total consumption.	Thousand short tons	CLTCPZZ = CLACPZZ + CLCCPZZ + CLEIPZZ + CLICPZZ + CLRCPZZ CLTCPUS = ΣCLTCPZZ
CLTXB	Coal total end-use consumption.	Billion Btu	CLTXBZZ = CLACBZZ + CLCCBZZ + CLICBZZ + CLRCBZZ CLTXBUS = $\Sigma$ CLTXBZZ
CLTXP	Coal total end-use consumption.	Thousand barrels	CLTXPZZ = CLACPZZ + CLCCPZZ + CLICPZZ + CLRCPZZ CLTXPUS = $\Sigma$ CLTXPZZ
COCAP	Atmospheric crude oil distillation operable capacity (operating capacity before 2013) at refineries.	Barrels per calendar day	COCAPZZ is independent. $COCAPUS = \Sigma COCAPZZ$
COICB	Crude oil consumed by the industrial sector.	Billion Btu	COICBZZ = COTCBZZ COICBUS = COTCBUS
COICP	Crude oil consumed by the industrial sector.	Thousand barrels	COICPZZ = COTCPZZ COICPUS = COTCPUS
COTCB	Crude oil consumed in petroleum industry operations.	Billion Btu	COTCBZZ = COTCPZZ * $5.800$ COTCBUS = $\Sigma$ COTCBZZ
COTCP	Crude oil consumed in petroleum industry operations.	Thousand barrels	COTCPZZ is independent. COTCPUS = $\Sigma$ COTCPZZ
CTCAP	Catalytic cracking charge capacity of petroleum refineries.	1960 through 1979: Barrels per calendar day; 1980 forward: Barrels per stream day	CTCAPZZ is independent. CTCAPUS = ΣCTCAPZZ
CYCAS	Natural gas combined cycle generating units capacity factor.	Percent	CYCASZZ is independent. CYCASUS is independent.
DFACB	Distillate fuel oil consumed by the transportation sector.	Billion Btu	DFACBZZ = DFACPZZ * DFTCKUS DFACBUS = $\Sigma$ DFACBZZ
DFACP	Distillate fuel oil consumed by the transportation sector.	Thousand barrels	DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ DFACPUS = $\Sigma$ DFACPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
DFBKP	Distillate fuel oil sales for vessel bunkering use, excluding that sold to the military.	Thousand barrels	DFBKPZZ is independent. DFBKPUS= ΣDFBKPZZ
DFCCB	Distillate fuel oil consumed by the commercial sector.	Billion Btu	DFCCBZZ = DFCCPZZ * DFTCKUS DFCCBUS = $\Sigma$ DFCCBZZ
DFCCP	Distillate fuel oil consumed by the commercial sector.	Thousand barrels	DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ DFCCPUS = $\Sigma$ DFCCPZZ
DFCMP	Distillate fuel oil sales to the commercial sector.	Thousand barrels	DFCMPZZ is independent. DFCMPUS = $\Sigma$ DFCMPZZ
DFEIB	Distillate fuel oil consumed by the electric power sector.	Billion Btu	DFEIBZZ = DFEIPZZ * DFTCKUS DFEIBUS = $\Sigma$ DFEIBZZ
DFEIP	Distillate fuel oil consumed by the electric power sector.	Thousand barrels	DFEIPZZ = DKEIPZZ - JKEUPZZ DFEIPUS = ΣDFEIPZZ
DFIBP	Distillate fuel oil sales for industrial space heating and other industrial use, including farm use.	Thousand barrels	DFIBPZZ is independent. DFIBPUS = $\Sigma$ DFIBPZZ
DFICB	Distillate fuel oil consumed by the industrial sector.	Billion Btu	DFICBZZ = DFICPZZ * DFTCKUS DFICBUS = $\Sigma$ DFICBZZ
DFICP	Distillate fuel oil consumed by the industrial sector.	Thousand barrels	DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ DFICPUS = $\Sigma$ DFICPZZ
DFINP	Distillate fuel oil sales to the industrial sector.	Thousand barrels	DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ DFINPUS = $\Sigma$ DFINPZZ
DFMIP	Distillate fuel oil sales to the military, regardless of use.	Thousand barrels	DFMIPZZ is independent. DFMIPUS = $\Sigma$ DFMIPZZ
DFNCP	Distillate fuel oil consumption by all end-use sectors.	Thousand barrels	DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS DFNCPUS = DFTCPUS - DFEIPUS
DFNDP	Distillate fuel oil sales to all end-use sectors.	Thousand barrels	DFNDPZZ = DFCMPZZ + DFINPZZ + DFRSPZZ + DFTRPZZ DFNDPUS = $\Sigma$ DFNDPZZ
DFOCP	Distillate fuel oil sales for use by oil companies.	Thousand barrels	DFOCPZZ is independent. DFOCPUS = ΣDFOCPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
DFOFP	Distillate fuel oil sales as diesel fuel for off- highway use.	Thousand barrels	DFOFPZZ is independent. DFOFPUS = ΣDFOFPZZ
DFONP	Distillate fuel oil sales as diesel fuel for on- highway use.	Thousand barrels	DFONPZZ is independent. DFONPUS = $\Sigma$ DFONPZZ
DFOTP	Distillate fuel oil sales for all other uses not identified in other sales categories.	Thousand barrels	DFOTPZZ is independent. DFOTPUS = $\Sigma$ DFOTPZZ
DFRCB	Distillate fuel oil consumed by the residential sector.	Billion Btu	DFRCBZZ = DFRCPZZ * DFTCKUS DFRCBUS = $\Sigma$ DFRCBZZ
DFRCP	Distillate fuel oil consumed by the residential sector.	Thousand barrels	DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ DFRCPUS = $\Sigma$ DFRCPZZ
DFRRP	Distillate fuel oil sales for use by railroads.	Thousand barrels	DFRRPZZ is independent. DFRRPUS = $\Sigma$ DFRRPZZ
DFRSP	Distillate fuel oil sales to the residential sector.	Thousand barrels	DFRSPZZ is independent. DFRSPUS = $\Sigma$ DFRSPZZ
DFTCB	Distillate fuel oil total consumption.	Billion Btu	DFTCBZZ = DFACBZZ + DFCCBZZ + DFEIBZZ + DFICBZZ + DFRCBZZ DFTCBUS = ΣDFTCBZZ
DFTCKUS	Factor for converting distillate fuel from physical units to Btu.	Million Btu per barrel	DFTCKUS is independent.
DFTCP	Distillate fuel oil total consumption.	Thousand barrels	DFTCPZZ = DFEIPZZ + DFNCPZZ DFTCPUS is independent.
DFTRP	Distillate fuel oil sales to the transportation sector.	Thousand barrels	DFTRPZZ = DFBKPZZ + DFMIPZZ + DFONPZZ + DFRRPZZ DFTRPUS = $\Sigma$ DFTRPZZ
DFTXB	Distillate fuel oil total end-use consumption.	Billion Btu	DFTXBZZ = DFACBZZ + DFCCBZZ + DFICBZZ + DFRCBZZ DFTXBUS = ΣDFTXBZZ
DFTXP	Distillate fuel oil total end-use consumption.	Thousand barrels	DFTXPZZ = DFACPZZ + DFCCPZZ + DFICPZZ + DFRCPZZ DFTXPUS = ΣDFTXPZZ
DKEIB	Distillate fuel oil (including kerosene-type jet fuel before 2001) consumed by the electric power sector.	Billion Btu	DKEIBZZ = DFEIBZZ + JKEUBZZ DKEIBUS = ΣDKEIBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
DKEIP	Distillate fuel oil (including kerosene-type jet fuel before 2001) consumed by the electric power sector.	Thousand barrels	DKEIPZZ is independent. DKEIPUS = ΣDKEIPZZ
DMACB	Distillate fuel oil, excluding biodiesel and renewable diesel, consumed by the transportation sector.	Billion Btu	DMACBZZ = DMACPZZ * DMTCKUS
DMACP	Distillate fuel oil, excluding biodiesel and renewable diesel, consumed by the transportation sector.	Thousand barrels	DMACPZZ = (DFACPZZ / DFACPUS) * DMACPUS DMACPUS is independent.
DMTCB	Distillate fuel oil, excluding biodiesel and renewable diesel, total consumption.	Billion Btu	Before 2009: DMTCBZZ = DFTCBZZ DMTCBUS = DFTCBUS 2009 forward: DMTCBZZ = DMTCPZZ * DMTCKUS DMTCBUS = ΣDMTCBZZ
DMTCKUS	Factor for converting distillate fuel, excluding biodiesel and renewable diesel, from physical units to Btu.	Million Btu per barrel	DMTCKUS is independent.
DMTCP	Distillate fuel oil, excluding biodiesel and renewable diesel, total consumption.	Thousand barrels	DMTCPZZ = DMACPZZ + DFCCPZZ + DFEIPZZ + DFICPZZ + DFRCPZZ DMTCPUS = DMACPUS + DFCCPUS + DFEIPUS + DFICPUS + DFRCPUS
ELEXB	Electricity exported from the United States.	Billion Btu	ELEXBZZ = ELEXPZZ * 3.412 ELEXBUS = ΣELEXBZZ
ELEXP	Electricity exported from the United States.	Million kilowatthours	ELEXPZZ is independent. ELEXPUS = $\Sigma$ ELEXPZZ
ELGBP	Total (all fuels) electric generating units net summer capacity in all sectors.	Thousand kilowatts	ELGBPZZ is independent. ELGBPUS is independent.
ELIMB	Electricity imported into the United States.	Billion Btu	ELIMBZZ = ELIMPZZ * $3.412$ ELIMBUS = $\Sigma$ ELIMBZZ
ELIMP	Electricity imported into the United States.	Million kilowatthours	ELIMPZZ is independent. ELIMPUS = ΣELIMPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
ELISB	Net interstate flow of electricity and associated losses (negative indicates flow out of state).	Billion Btu	Before 1990:  ELISBZZ = (ESTCBZZ + LOTCBZZ) - TEEIBZZ  ELISBUS = 0  1990 forward:  If ELISPZZ < 0, ELISBZZ = -(TEEIBZZ * (-ELISPZZ / (-ELISPZZ + ESTCPZZ)))  If ELISPZZ >= 0, ELISBZZ = ELISPZZ * (average hear content of energy for all outflow electricity)  ELISBUS = 0
ELISP	Net interstate flow of electricity (negative indicates flow out of state).	Million kilowatthours	ELISPZZ is independent. ELISPUS = 0
ELLSS48	The ratio of electrical system energy losses to electricity sold in the contiguous 48 states and the District of Columbia.	Fraction	ELLSS48 = LOTCB48 / ESTCB48
ELNIB	Net imports of electricity into the United States.	Billion Btu	ELNIBZZ = ELIMBZZ - ELEXBZZ ELNIBUS = $\Sigma$ ELNIBZZ
ELNIP	Net imports of electricity into the United States.	Million kilowatthours	ELNIPZZ = ELIMPZZ - ELEXPZZ ELNIPUS = $\Sigma$ ELNIPZZ
ELVHN	Total electric vehicle (EV) light-duty stocks.	Thousands of registered vehicles	ELVHNZZ = BTVHNZZ + PHVHNZZ ELVHNUS = $\Sigma$ ELVHNZZ
ELVHS	Electric vehicle (EV) share of total light-duty vehicles.	Percent	ELVHSZZ = ELVHNZZ / LDVHNZZ * 100
EMACB	Fuel ethanol, excluding denaturant, consumed by the transportation sector.	Billion Btu	EMACBZZ = (MGACPZZ / MGTCPZZ) * EMTCBZZ EMACBUS = $\Sigma$ EMACBZZ
EMCCB	Fuel ethanol, excluding denaturant, consumed by the commercial sector.	Billion Btu	EMCCBZZ = (MGCCPZZ / MGTCPZZ) * EMTCBZZ EMCCBUS = $\Sigma$ EMCCBZZ
EMICB	Fuel ethanol, excluding denaturant, consumed by the industrial sector.	Billion Btu	EMICBZZ = (MGICPZZ / MGTCPZZ) * EMTCBZZ EMICBUS = $\Sigma$ EMICBZZ
EMLCB	Energy losses and co-products from the production of fuel ethanol.	Billion Btu	EMLCBZZ = (EMPRBZZ / EMPRBUS) * EMLCBUS EMLCBUS is independent.
EMPRB	Fuel ethanol production excluding denaturant.	Billion Btu	EMPRBZZ is independent. EMPRBUS is independent.
EMTCB	Fuel ethanol, excluding denaturant, total consumption.	Billion Btu	EMTCBZZ = (EMTCBUS / ENTCBUS) * ENTCBZZ EMTCBUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
ENACB	Fuel ethanol, including denaturant, consumed by the transportation sector.	Billion Btu	ENACBZZ = (MGACPZZ / MGTCPZZ) * ENTCBZZ ENACBUS = $\Sigma$ ENACBZZ
ENACP	Fuel ethanol, including denaturant, consumed by the transportation sector.	Thousand barrels	ENACPZZ = (MGACPZZ / MGTCPZZ) * ENTCPZZ ENACPUS = $\Sigma$ ENACPZZ
ENCCB	Fuel ethanol, including denaturant, consumed by the commercial sector.	Billion Btu	ENCCBZZ = (MGCCPZZ / MGTCPZZ) *ENTCBZZ ENCCBUS = $\Sigma$ ENCCBZZ
ENCCP	Fuel ethanol, including denaturant, consumed by the commercial sector.	Thousand barrels	ENCCPZZ = (MGCCPZZ / MGTCPZZ) * ENTCPZZ ENCCPUS = $\Sigma$ ENCCPZZ
ENICB	Fuel ethanol, including denaturant, consumed by the industrial sector.	Billion Btu	ENICBZZ = (MGICPZZ / MGTCPZZ) * ENTCBZZ ENICBUS = $\Sigma$ ENICBZZ
ENICP	Fuel ethanol, including denaturant, consumed by the industrial sector.	Thousand barrels	ENICPZZ = (MGICPZZ / MGTCPZZ) * ENTCPZZ ENICPUS = $\Sigma$ ENICPZZ
ENTCB	Fuel ethanol, including denaturant, total consumption.	Billion Btu	ENTCBZZ = (ENTCPZZ / ENTCPUS) * ENTCBUS ENTCBUS is independent.
ENTCKUS	Fuel ethanol total consumption conversion factor for the United States.	Million Btu per barrel	ENTCKUS = ENTCBUS / ENTCPUS
ENTCP	Fuel ethanol, including denaturant, total consumption.	Thousand barrels	ENTCPZZ = (ENTRPZZ / ENTRPUS) * ENTCPUS ENTCPUS is independent.
ENTRP	Fuel ethanol blended into motor gasoline.	Thousand gallons	ENTRPZZ is independent. ENTRPUS = $\Sigma$ ENTRPZZ
EQICB	Ethane consumed by the industrial sector.	Billion Btu	EQICBZZ = EQTCBZZ EQICBUS = EQTCBUS
EQICP	Ethane consumed by the industrial sector.	Thousand barrels	EQICPZZ = EQTCPZZ EQICPUS = EQTCPUS
EQTCB	Ethane total consumption.	Billion Btu	EQTCBZZ = EQTCPZZ * $2.783$ EQTCBUS = $\Sigma$ EQTCBZZ
EQTCP	Ethane total consumption.	Thousand barrels	EQTCPZZ is independent. EQTCPUS is independent.
ESACB	Electricity consumed by (sales to ultimate customers in) the transportation sector.	Billion Btu	ESACBZZ = ESACPZZ * 3.412 ESACBUS = ΣESACBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
ESACP	Electricity consumed by (sales to ultimate customers in) the transportation sector.	Million kilowatthours	Before 2003: ESACPZZ = ESTRPZZ ESACPUS = ΣESACPZZ 2003 forward: ESACPZZ is independent. ESACPUS = ΣESACPZZ
ESCCB	Electricity consumed by (sales to ultimate customers in) the commercial sector.	Billion Btu	ESCCBZZ = ESCCPZZ * $3.412$ ESCCBUS = $\Sigma$ ESCCBZZ
ESCCP	Electricity consumed by (sales to ultimate customers in) the commercial sector.	Million kilowatthours	Before 2003: ESCCPZZ = ESCMPZZ + (ESOTPZZ - ESTRPZZ) ESCCPUS = ΣESCCPZZ 2003 forward: ESCCPZZ = ESCMPZZ ESCCPUS = ΣESCCPZZ
ESCMP	Electricity sold to a portion of the commercial sector.	Million kilowatthours	ESCMPZZ is independent. ESCMPUS = $\Sigma$ ESCMPZZ
ESICB	Electricity consumed by (sales to ultimate customers in) the industrial sector.	Billion Btu	ESICBZZ = ESICPZZ * 3.412 ESICBUS = ΣESICBZZ
ESICP	Electricity consumed by (sales to ultimate customers in) the industrial sector.	Million kilowatthours	ESICPZZ is independent. ESICPUS = ΣESICPZZ
ESOTP	Electricity sold to the "Other" sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales) (through 2002).	Million kilowatthours	ESOTPZZ is independent. ESOTPUS = ΣESOTPZZ
ESRCB	Electricity consumed by (sales to ultimate customers in) the residential sector.	Billion Btu	ESRCBZZ = ESRCPZZ * 3.412 ESRCBUS = ΣESRCBZZ
ESRCP	Electricity consumed by (sales to ultimate customers in) the residential sector.	Million kilowatthours	ESRCPZZ is independent. ESRCPUS = $\Sigma$ ESRCPZZ
ESRPP	Electricity consumed by (sales to ultimate customers in) the residential sector per capita.	Kilowatthours	ESRPP = ESRCP / TPOPP * 1000
ESTCB	Electricity total consumption (electricity sales to ultimate customers).	Billion Btu	ESTCBZZ = ESTCPZZ * 3.412 ESTCBUS = ΣESTCBZZ ESTCB48 = ESTCBUS - (ESTCBAK + ESTCBHI)

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
ESTCKUS	Electricity conversion factor for the United States.	Thousand Btu per kilowatthour	ESTCKUS = 3.412
ESTCP	Electricity total consumption (electricity sales to ultimate customers).	Million kilowatthours	ESTCPZZ = ESACPZZ + ESCCPZZ + ESICPZZ + ESRCPZZ ESTCPUS = ΣESTCPZZ
ESTPP	Electricity total consumption (electricity sales to ultimate customers) per capita.	Kilowatthours	ESTPP = ESTCP / TPOPP * 1000
ESTRP	Electricity consumed by transit systems (through 2002).	Million kilowatthours	ESTRPZZ is independent. ESTRPUS = ΣESTRPZZ
ESTRSUS	The share of electricity sold to the "Other" sector (ESOTP) that is used for transportation in the United States (through 2002).	Fraction	ESTRSUS = ESACPUS / ESOTPUS
ESTXB	Electricity total end-use consumption (electricity sales to ultimate customers).	Billion Btu	ESTXBZZ = ESACBZZ + ESCCBZZ + ESICBZZ + ESRCBZZ ESTXBUS = ΣESTXBZZ
ESTXP	Electricity total end-use consumption (electricity sales to ultimate customers).	Million kilowatthours	ESTXPZZ = ESACPZZ + ESCCPZZ + ESICPZZ + ESRCPZZ ESTXPUS = ΣESTXPZZ
ESVHP	Electricity consumed for electric vehicle (EV) use.	Million kilowatthours	ESVHPZZ is independent. ESVHPUS = ΣESVHPZZ
EV0CN	Legacy charging ports for electric vehicles.	Number	EV0CNZZ is independent. EV0CNUS is independent.
EV1CN	Level 1 charging ports for electric vehicles.	Number	EV1CNZZ is independent. EV1CNUS is independent.
EV2CN	Level 2 charging ports for electric vehicles.	Number	EV2CNZZ is independent. EV2CNUS is independent.
EV2CR	Level 2 charging ports per location.	Number	EV2CRZZ is independent. EV2CRUS is independent.
EVCHN	Total charging ports for electric vehicles.	Number	EVCHNZZ is independent. EVCHNUS is independent.
EVCHP	Total electric vehicle charging locations.	Number	EVCHPZZ is independent. EVCHPUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
EVDCN	DC fast charging ports for electric vehicles.	Number	EVDCNZZ is independent. EVDCNUS is independent.
EVDCR	DC fast charging ports per location.	Number	EVDCRZZ is independent. EVDCRUS is independent.
EVNNP	Electric vehicle charging locations with both networked and non-networked ports.	Number	EVNNPZZ is independent. EVNNPUS is independent.
EVNOP	Electric vehicle charging locations with non- networked ports only.	Number	EVNOPZZ is independent. EVNOPUS is independent.
EVNTP	Electric vehicle charging locations with networked ports only.	Number	EVNTPZZ is independent. EVNTPUS is independent.
EVPPP	Electric vehicle charging locations with both public and private ports.	Number	EVPPPZZ is independent. EVPPPUS is independent.
EVPUP	Electric vehicle charging locations with public ports only.	Number	EVPUPZZ is independent. EVPUPUS is independent.
EVPVP	Electric vehicle charging locations with private ports only.	Number	EVPVPZZ is independent. EVPVPUS is independent.
EYICB	Ethylene from refineries consumed by the industrial sector.	Billion Btu	EYICBZZ = EYTCBZZ EYICBUS = EYTCBUS
EYICP	Ethylene from refineries consumed by the industrial sector.	Thousand barrels	EYICPZZ = EYTCPZZ EYICPUS = EYTCPUS
EYTCB	Ethylene from refineries total consumption.	Billion Btu	EYTCBZZ = EYTCPZZ * 2.436 EYTCBUS = ΣEYTCBZZ
EYTCP	Ethylene from refineries total consumption.	Thousand barrels	EYTCPZZ is independent. EYTCPUS is independent.
FFETKUS	Fossil-fueled steam-electric power plant conversion factor.	Thousand Btu per kilowatthour	FFETKUS is independent.
FFGBP	Fossil fuel total generating units net summer capacity in all sectors.	Thousand kilowatts	FFGBPZZ is independent. FFGBPUS is independent.
FFTCB	Fossil fuels total consumption.	Billion Btu	FFTCBZZ = CLTCBZZ + NNTCBZZ + PMTCBZZ FFTCBUS = CCNIBUS + CLTCBUS + NNTCBUS + PMTCBUS
FNCAS	State's share of U.S. capacity of steam crackers using naphtha as feedstocks.	Percent share	FNCASZZ is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
FNICB	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Billion Btu	FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS
FNICP	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Thousand barrels	FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS
FNTCB	Petrochemical feedstocks, naphtha less than 401° F, total consumption.	Billion Btu	FNTCBZZ = FNTCPZZ * $5.248$ FNTCBUS = $\Sigma$ FNTCBZZ
FNTCP	Petrochemical feedstocks, naphtha less than 401° F, total consumption.	Thousand barrels	FNTCPZZ = FNTCPUS * FNCASZZ FNTCPUS is independent.
FOCAS	State's share of U.S. capacity of steam crackers using other oils as feedstocks.	Percent share	FOCASZZ is independent.
FOICB	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Billion Btu	FOICBZZ = FOTCBZZ FOICBUS = FOTCBUS
FOICP	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Thousand barrels	FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS
FOTCB	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumption.	Billion Btu	FOTCBZZ = FOTCPZZ * $5.825$ FOTCBUS = $\Sigma$ FOTCBZZ
FOTCP	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumption.	Thousand barrels	FOTCPZZ = FOTCPUS * FOCASZZ FOTCPUS is independent.
FSICB	Petrochemical feedstocks, still gas, consumed by the industrial sector (through 1985).	Billion Btu	FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS
FSICP	Petrochemical feedstocks, still gas, consumed by the industrial sector (through 1985).	Thousand barrels	FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS
FSTCB	Petrochemical feedstocks, still gas, total consumption (through 1985).	Billion Btu	FSTCBZZ = FSTCPZZ * 6.000 FSTCBUS = ΣFSTCBZZ
FSTCP	Petrochemical feedstocks, still gas, total consumption (through 1985).	Thousand barrels	FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS FSTCPUS is independent.
GDPRV	Current-dollar gross domestic product (GDP).	Million dollars	GDPRVZZ is independent. GDPRVUS is independent.
GDPRX	Real gross domestic product (GDP).	Million chained (2017) dollars	GDPRXZZ is independent. GDPRXUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
GEC4B	Geothermal energy consumed as direct heat or from heat pumps in the commercial sector.	Billion Btu	GEC4BZZ is independent. GEC4BUS = $\Sigma$ GEC4BZZ
GEC5B	Geothermal energy consumed for electricity generation at utility-scale commercial CHP and electricity-only facilities.	Billion Btu	GEC5BZZ = GEC5PZZ * $3.412$ GEC5BUS = $\Sigma$ GEC5BZZ
GEC5P	Geothermal electricity net generation at utility- scale commercial CHP and electricity-only facilities.	Million kilowatthours	GEC5PZZ is independent. GEC5PUS = ΣGEC5PZZ
GECAS	Geothermal generating units capacity factor.	Percent	GECASZZ is independent. GECASUS is independent.
GECCB	Geothermal energy consumed by the commercial sector.	Billion Btu	GECCBZZ = GEC4BZZ + GEC5BZZ GECCBUS = $\Sigma$ GECCBZZ
GEEGB	Geothermal energy consumed for electricity generation by the electric power sector.	Billion Btu	GEEGBZZ = GEEGPZZ $*$ 3.412 GEEGBUS = $\Sigma$ GEEGBZZ
GEEGP	Geothermal electricity net generation in the electric power sector.	Million kilowatthours	GEEGPZZ is independent. GEEGPUS = ΣGEEGPZZ
GEGBP	Geothermal generating units net summer capacity in all sectors.	Thousand kilowatts	GEGBPZZ is independent. GEGBPUS is independent.
GEICB	Geothermal energy consumed by the industrial sector.	Billion Btu	GEICBZZ is independent. GEICBUS = $\Sigma$ GEICBZZ
GERCB	Geothermal energy consumed by the residential sector.	Billion Btu	GERCBZZ is independent. $GERCBUS = \Sigma GERCBZZ$
GETCB	Geothermal energy total consumption.	Billion Btu	GETCBZZ = GECCBZZ + GEEGBZZ + GEICBZZ + GERCBZZ GETCBUS = $\Sigma$ GETCBZZ
GETXB	Geothermal energy total end-use consumption.	Billion Btu	GETXBZZ = GECCBZZ + GEICBZZ + GERCBZZ GETXBUS = $\Sigma$ GETXBZZ
HLACB	Hydrocarbon gas liquids consumed by the transportation sector.	Billion Btu	Before 2010: HLACBZZ = LGACBZZ HLACBUS = ΣHLACBZZ 2010 forward: HLACBZZ = PQACBZZ HLACBUS = ΣHLACBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
HLACP	Hydrocarbon gas liquids consumed by the transportation sector.	Thousand barrels	Before 2010: HLACPZZ = LGACPZZ HLACPUS = ΣHLACPZZ 2010 forward: HLACPZZ = PQACPZZ HLACPUS = ΣHLACPZZ
HLCCB	Hydrocarbon gas liquids consumed by the commercial sector.	Billion Btu	Before 2010: HLCCBZZ = LGCCBZZ HLCCBUS = ΣHLCCBZZ 2010 forward: HLCCBZZ = PQCCBZZ HLCCBUS = ΣHLCCBZZ
HLCCP	Hydrocarbon gas liquids consumed by the commercial sector.	Thousand barrels	Before 2010: HLCCPZZ = LGCCPZZ HLCCPUS = ΣHLCCPZZ 2010 forward: HLCCPZZ = PQCCPZZ HLCCPUS = ΣHLCCPZZ
HLICB	Hydrocarbon gas liquids consumed by the industrial sector.	Billion Btu	Before 1984: HLICBZZ = LGICBZZ + NATCBZZ + PLTCBZZ + USTCBZZ 1984 through 2009: HLICBZZ = LGICBZZ + PPICBZZ 2010 forward: HLICBZZ = BQICBZZ + BYICBZZ + EQICBZZ + EYICBZZ + IQICBZZ + IYICBZZ + PPICBZZ + PQICBZZ + PYICBZZ HLICBUS = ΣHLICBZZ for all years.
HLICK	Average factor for converting hydrocarbon gas liquids consumed by the industrial sector from physical unit to Btu.	Million Btu per barrel	HLICKZZ = HLICBZZ / HLICPZZ HLICKUS = HLICBUS / HLICPUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
HLICP	Hydrocarbon gas liquids consumed by the industrial sector.	Thousand barrels	Before 1984: HLICPZZ = LGICPZZ + NATCPZZ + PLTCPZZ + USTCPZZ 1984 through 2009: HLICPZZ = LGICPZZ + PPICPZZ 2010 forward: HLICPZZ = BQICPZZ + BYICPZZ + EQICPZZ + EYICPZZ + IQICPZZ + IYICPZZ + PPICPZZ + PQICPZZ + PYICPZZ HLICPUS = ΣHLICPZZ for all years.
HLRCB	Hydrocarbon gas liquids consumed by the residential sector.	Billion Btu	Before 2010: HLRCBZZ = LGRCBZZ HLRCBUS = ΣHLRCBZZ 2010 forward: HLRCBZZ = PQRCBZZ HLRCBUS = ΣHLRCBZZ
HLRCP	Hydrocarbon gas liquids consumed by the residential sector.	Thousand barrels	Before 2010: HLRCPZZ = LGRCPZZ HLRCPUS = ΣHLRCPZZ 2010 forward: HLRCPZZ = PQRCPZZ HLRCPUS = ΣHLRCPZZ
HLTCB	Hydrocarbon gas liquids total consumption.	Billion Btu	HLTCBZZ = HLACBZZ + HLCCBZZ + HLICBZZ + HLRCBZZ HLTCBUS = $\Sigma$ HLTCBZZ
HLTCK	Average factor for converting hydrocarbon gas liquids total consumption from physical unit to Btu.	Million Btu per barrel	HLTCKZZ = HLTCBZZ / HLTCPZZ HLTCKUS = HLTCBUS / HLTCPUS
HLTCP	Hydrocarbon gas liquids total consumption.	Thousand barrels	HLTCPZZ = HLACPZZ + HLCCPZZ + HLICPZZ + HLRCPZZ for all years.  Before 1984: HLTCPUS = LGTCPUS + NATCPUS + PLTCPUS + USTCPUS 1984 through 2009: HLTCPUS = LGTCPUS + PPTCPUS 2010 forward: HLTCPUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
HLTXB	Hydrocarbon gas liquids total end-use consumption.	Billion Btu	HLTXBZZ = HLACBZZ + HLCCBZZ + HLICBZZ + HLRCBZZ HLTXBUS = $\Sigma$ HLTXBZZ
HLTXP	Hydrocarbon gas liquids total end-use consumption.	Thousand barrels	HLTXPZZ = HLACPZZ + HLCCPZZ + HLICPZZ + HLRCPZZ HLTXPUS = $\Sigma$ HLTXPZZ
HPCAS	Hydroelectric pumped storage generating units usage factor.	Percent	HPCASZZ is independent. HPCASUS is independent.
HPGBP	Hydroelectric pumped storage generating units net summer capacity in all sectors.	Thousand kilowatts	HPGBPZZ is independent. HPGBPUS is independent.
HVC5P	Conventional hydroelectricity net generation at commercial CHP and electricity-only facilities.	Million kilowatthours	HVC5PZZ is independent. HVC5PUS = $\Sigma$ HVC5PZZ
HVCAS	Conventional hydroelectric generating units capacity factor.	Percent	HVCASZZ is independent. HVCASUS is independent.
HVEGP	Conventional hydroelectricity net generation in the electric power sector.	Million kilowatthours	HVEGPZZ is independent. HVEGPUS = $\Sigma$ HVEGPZZ
HVGBP	Conventional hydroelectric power generating units net summer capacity in all sectors.	Thousand kilowatts	HVGBPZZ is independent. HVGBPUS is independent.
HVI5P	Conventional hydroelectricity net generation at industrial CHP and electricity-only facilities.	Million kilowatthours	HVI5PZZ is independent. HVI5PUS = $\Sigma$ HVI5PZZ
HYCCB	Hydropower consumed by the commercial sector.	Billion Btu	HYCCBZZ = HYCCPZZ * $3.412$ HYCCBUS = $\Sigma$ HYCCBZZ
HYCCP	Hydroelectricity net generation in the commercial sector.	Million kilowatthours	HYCCPZZ = HVC5PZZ HYCCPUS = $\Sigma$ HYCCPZZ
HYEGB	Hydropower consumed for electricity generation by the electric power sector.	Billion Btu	HYEGBZZ = HYEGPZZ * $3.412$ HYEGBUS = $\Sigma$ HYEGBZZ
HYEGP	Hydroelectricity net generation in the electric power sector.	Million kilowatthours	HYEGPZZ = HVEGPZZ HYEGPUS = $\Sigma$ HYEGPZZ
HYICB	Hydropower consumed by the industrial sector.	Billion Btu	HYICBZZ = HYICPZZ * 3.412 HYICBUS = ΣHYICBZZ
HYICP	Hydroelectricity net generation in the industrial sector.	Million kilowatthours	HYICPZZ = HVI5PZZ HYICPUS = ΣHYICPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
HYTCB	Hydropower total consumption.	Billion Btu	HYTCBZZ = HYCCBZZ + HYEGBZZ + HYICBZZ HYTCBUS = $\Sigma$ HYTCBZZ
HYTCP	Hydroelectricity total net generation.	Million kilowatthours	HYTCPZZ = HYCCPZZ + HYEGPZZ + HYICPZZ HYTCPUS = $\Sigma$ HYTCPZZ
HYTXB	Hydropower energy total end-use consumption.	Billion Btu	HYTXBZZ = HYCCBZZ + HYICBZZ HYTXBUS = $\Sigma$ HYTXBZZ
HYTXP	Hydroelectricity, total end-use net generation.	Million kilowatthours	HYTXPZZ = HYCCPZZ + HYICPZZ HYTXPUS = $\Sigma$ HYTXPZZ
IQICB	Isobutane consumed by the industrial sector.	Billion Btu	IQICBZZ = IQTCBZZ IQICBUS = IQTCBUS
IQICP	Isobutane consumed by the industrial sector.	Thousand barrels	IQICPZZ = IQTCPZZ IQICPUS = IQTCPUS
IQTCB	Isobutane total consumption.	Billion Btu	IQTCBZZ = IQTCPZZ * 4.183 IQTCBUS = ΣIQTCBZZ
IQTCP	Isobutane total consumption.	Thousand barrels	IQTCPZZ is independent. IQTCPUS is independent.
IYICB	Isobutylene from refineries consumed by the industrial sector.	Billion Btu	IYICBZZ = IYTCBZZ IYICBUS = IYTCBUS
IYICP	Isobutylene from refineries consumed by the industrial sector.	Thousand barrels	IYICPZZ = IYTCPZZ IYICPUS = IYTCPUS
IYTCB	Isobutylene from refineries total consumption.	Billion Btu	IYTCBZZ = IYTCPZZ * 4.355 IYTCBUS = ΣIYTCBZZ
IYTCP	Isobutylene from refineries total consumption.	Thousand barrels	IYTCPZZ is independent. IYTCPUS is independent.
JFACB	Jet fuel consumed by the transportation sector.	Billion Btu	JFACBZZ = JKACBZZ + JNACBZZ JFACBUS = ΣJFACBZZ
JFACP	Jet fuel consumed by the transportation sector.	Thousand barrels	JFACPZZ = JKACPZZ + JNACPZZ JFACPUS = ΣJFACPZZ
JFEUB	Jet fuel consumed by the electric power sector (through 1982).	Billion Btu	JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS
JFEUP	Jet fuel consumed by the electric power sector (through 1982).	Thousand barrels	JFEUPZZ = JKEUPZZ JFEUPUS = JKEUPUS

MSN	Description	Unit	Formula
JFTCB	Jet fuel total consumption.	Billion Btu	JFTCBZZ = JFACBZZ + JFEUBZZ JFTCBUS = $\Sigma$ JFTCBZZ
JFTCP	Jet fuel total consumption.	Thousand barrels	JFTCPZZ = JFACPZZ + JFEUPZZ JFTCPUS = $\Sigma$ JFTCPZZ
JFTXB	Jet fuel total end-use consumption.	Billion Btu	JFTXBZZ = JFACBZZ JFTXBUS = $\Sigma$ JFTXBZZ
JFTXP	Jet fuel total end-use consumption.	Thousand barrels	JFTXPZZ = JFACPZZ JFTXPUS = $\Sigma$ JFTXPZZ
JKACB	Kerosene-type jet fuel consumed by the transportation sector.	Billion Btu	JKACBZZ = JKACPZZ * $5.670$ JKACBUS = $\Sigma$ JKACBZZ
JKACP	Kerosene-type jet fuel consumed by the transportation sector.	Thousand barrels	Before 2010:  JKACPZZ = (JKTTPZZ / JKTTPUS) * JKACPUS  JKACPUS = JKTCPUS - JKEUPUS  2010 forward:  JKACPZZ is independent.  JKACPUS = ΣJKACPZZ
JKEUB	Kerosene-type jet fuel consumed by the electric power sector (through 1982).	Billion Btu	JKEUBZZ = JKEUPZZ * 5.670 JKEUBUS = $\Sigma$ JKEUBZZ
JKEUP	Kerosene-type jet fuel consumed by the electric power sector (through 1982).	Thousand barrels	JKEUPZZ is independent. JKEUPUS = $\Sigma$ JKEUPZZ
JKTCB	Kerosene-type jet fuel total consumption.	Billion Btu	JKTCBZZ = JKTCPZZ * $5.670$ JKTCBUS = $\Sigma$ JKTCBZZ
JKTCP	Kerosene-type jet fuel total consumption.	Thousand barrels	Before 2010:  JKTCPZZ = JKACPZZ + JKEUPZZ  JKTCPUS is independent.  2010 forward:  JKTCPZZ = JKACPZZ  JKTCPUS is independent.
JKTTP	Kerosene-type jet fuel total sold (through 2009).	Thousand gallons	JKTTPZZ is independent. JKTTPUS = ΣJKTTPZZ
JNACB	Naphtha-type jet fuel consumed by the transportation sector.	Billion Btu	JNACBZZ = JNTCBZZ JNACBUS = JNTCBUS
JNACP	Naphtha-type jet fuel consumed by the transportation sector.	Thousand barrels	JNACPZZ = JNTCPZZ JNACPUS = JNTCPUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
JNMIP	Naphtha-type jet fuel issued to the military.	Thousand barrels	JNMIPZZ is independent. JNMIPUS = $\Sigma$ JNMIPZZ
JNTCB	Naphtha-type jet fuel total consumption.	Billion Btu	JNTCBZZ = JNTCPZZ * $5.355$ JNTCBUS = $\Sigma$ JNTCBZZ
JNTCP	Naphtha-type jet fuel total consumption.	Thousand barrels	JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS JNTCPUS is independent.
KSCCB	Kerosene consumed by the commercial sector.	Billion Btu	KSCCBZZ = KSCCPZZ * 5.670 KSCCBUS = ΣKSCCBZZ
KSCCP	Kerosene consumed by the commercial sector.	Thousand barrels	$KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ KSCCPUS = \Sigma KSCCPZZ$
KSCMP	Kerosene sold to the commercial sector.	Thousand barrels	KSCMPZZ is independent. KSCMPUS = $\Sigma$ KSCMPZZ
KSICB	Kerosene consumed by the industrial sector.	Billion Btu	KSICBZZ = KSICPZZ * $5.670$ KSICBUS = $\Sigma$ KSICBZZ
KSICP	Kerosene consumed by the industrial sector.	Thousand barrels	KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ KSICPUS = $\Sigma$ KSICPZZ
KSIHP	Kerosene sold for industrial heating and processing.	Thousand barrels	KSIHPZZ is independent. KSIHPUS = $\Sigma$ KSIHPZZ
KSINP	Kerosene sold to the industrial sector.	Thousand barrels	KSINPZZ = KSIHPZZ + KSOTPZZ KSINPUS = $\Sigma$ KSINPZZ
KSOTP	Kerosene sold for all other uses, including farm use.	Thousand barrels	KSOTPZZ is independent. KSOTPUS = $\Sigma$ KSOTPZZ
KSRCB	Kerosene consumed by the residential sector.	Billion Btu	KSRCBZZ = KSRCPZZ * $5.670$ KSRCBUS = $\Sigma$ KSRCBZZ
KSRCP	Kerosene consumed by the residential sector.	Thousand barrels	KSRCPZZ = (KSRSPZZ / KSTTPZZ) * KSTCPZZ KSRCPUS = $\Sigma$ KSRCPZZ
KSRSP	Kerosene sold to the residential sector.	Thousand barrels	KSRSPZZ is independent. KSRSPUS = $\Sigma$ KSRSPZZ
KSTCB	Kerosene total consumption.	Billion Btu	KSTCBZZ = KSCCBZZ + KSICBZZ + KSRCBZZ KSTCBUS = $\Sigma$ KSTCBZZ
KSTCP	Kerosene total consumption.	Thousand barrels	KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS KSTCPUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
KSTTP	Kerosene total sold.	Thousand barrels	KSTTPZZ = KSCMPZZ + KSINPZZ + KSRSPZZ KSTTPUS = $\Sigma$ KSTTPZZ
KSTXB	Kerosene total end-use consumption.	Billion Btu	KSTXBZZ = KSCCBZZ + KSICBZZ + KSRCBZZ KSTXBUS = $\Sigma$ KSTXBZZ
KSTXP	Kerosene total end-use consumption.	Thousand barrels	KSTXPZZ = KSCCPZZ + KSICPZZ + KSRCPZZ KSTXPUS = $\Sigma$ KSTXPZZ
LDVHN	Total (all fuels) vehicle light-duty stocks.	Thousands of registered vehicles	LDVHNZZ is independent. LDVHNUS is independent.
LGACB	LPG consumed by the transportation sector (through 2009).	Billion Btu	LGACBZZ = LGACPZZ * 3.841 LGACBUS = ΣLGACBZZ
LGACP	LPG consumed by the transportation sector (through 2009).	Thousand barrels	LGACPZZ = LGCBPZZ * LGTRSUS LGACPUS = $\Sigma$ LGACPZZ
LGCBM	LPG sales for internal combustion engine use (through 2009).	Thousand gallons	LGCBMZZ is independent. LGCBMUS = ΣLGCBMZZ
LGCBP	LPG consumed for internal combustion engine use (through 2009).	Thousand barrels	LGCBPZZ = LGCBMZZ / $42$ LGCBPUS = $\Sigma$ LGCBPZZ
LGCCB	LPG consumed by the commercial sector (through 2009).	Billion Btu	LGCCBZZ = LGCCPZZ * 3.841 LGCCBUS = ΣLGCCBZZ
LGCCP	LPG consumed by the commercial sector (through 2009).	Thousand barrels	LGCCPZZ = LGHCPZZ * LGCCSZZ LGCCPUS = $\Sigma$ LGCCPZZ
LGCCS	The share of residential and commercial LPG consumed by the commercial sector (through 2009).	Percent	LGCCSZZ is independent.
LGHCM	LPG sold for residential and commercial use (through 2009).	Thousand gallons	LGHCMZZ is independent. LGHCMUS = $\Sigma$ LGHCMZZ
LGHCP	LPG consumed by the residential and commercial sectors (through 2009).	Thousand barrels	LGHCPZZ = LGHCMZZ / 42 LGHCPUS = $\Sigma$ LGHCPZZ
LGICB	LPG consumed by the industrial sector (through 2009).	Billion Btu	LGICBZZ = (LGICPZZ / LGICPUS) * LGICBUS LGICBUS = LGTCBUS - (LGACBUS + LGCCBUS + LGRCBUS)
LGICKUS	Average conversion factor for industrial consumption of LPG for the United States (through 2009).	Million Btu per barrel	LGICKUS = LGICBUS / LGICPUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
LGICP	LPG consumed by the industrial sector (through 2009).	Thousand barrels	Before 2008: LGICPZZ = LGTCPZZ - (LGACPZZ + LGCCPZZ + LGRCPZZ) LGICPUS = ΣLGICPZZ For 2008 and 2009: LGICPZZ is independent. LGICPUS = ΣLGICPZZ
LGRCB	LPG consumed by the residential sector (through 2009).	Billion Btu	LGRCBZZ = LGRCPZZ * 3.841 LGRCBUS = ΣLGRCBZZ
LGRCP	LPG consumed by the residential sector (through 2009).	Thousand barrels	LGRCPZZ = LGHCPZZ * LGRCSZZ LGRCPUS = $\Sigma$ LGRCPZZ
LGRCS	The share of residential and commercial LPG consumed by the residential sector (through 2009).	Percent	LGRCSZZ is independent.
LGTCB	LPG total consumption (through 2009).	Billion Btu	LGTCBZZ = LGACBZZ + LGCCBZZ + LGICBZZ + LGRCBZZ LGTCBUS is independent.
LGTCKUS	Factor for converting LPG from physical units to Btu for the United States (through 2009).	Million Btu per barrel	LGTCKUS is independent.
LGTCP	LPG total consumption (through 2009).	Thousand barrels	Before 2008: LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS LGTCPUS is independent. For 2008 and 2009: LGTCPZZ = LGACPZZ + LGCCPZZ + LGICPZZ + LGRCPZZ LGTCPUS is independent.
LGTRSUS	The transportation sector's share of LPG internal combustion engine sales for the United States (through 2009).	Fraction	LGTRSUS is independent.
LGTTP	LPG total sold (through 2009).	Thousand gallons	LGTTPZZ is independent. LGTTPUS = ΣLGTTPZZ
LGTXB	LPG total end-use consumption (through 2009).	Billion Btu	LGTXBZZ = LGACBZZ + LGCCBZZ + LGICBZZ + LGRCBZZ LGTXBUS = ΣLGTXBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
LGTXP	LPG total end-use consumption (through 2009).	Thousand barrels	LGTXPZZ = LGACPZZ + LGCCPZZ + LGICPZZ + LGRCPZZ LGTXPUS = $\Sigma$ LGTXPZZ
LOACB	The transportation sector's share of electrical system energy losses.	Billion Btu	LOACBZZ = (ESACBZZ / ESTCBZZ) * LOTCBZZ LOACBUS = $\Sigma$ LOACBZZ
LOCCB	The commercial sector's share of electrical system energy losses.	Billion Btu	LOCCBZZ = (ESCCBZZ / ESTCBZZ) * LOTCBZZ LOCCBUS = $\Sigma$ LOCCBZZ
LOICB	The industrial sector's share of electrical system energy losses.	Billion Btu	LOICBZZ = (ESICBZZ / ESTCBZZ) * LOTCBZZ LOICBUS = $\Sigma$ LOICBZZ
LORCB	The residential sector's share of electrical system energy losses.	Billion Btu	LORCBZZ = (ESRCBZZ / ESTCBZZ) * LOTCBZZ LORCBUS = $\Sigma$ LORCBZZ
LOTCB	Total electrical system energy losses.	Billion Btu	Before 1990: LOTCBZZ = ESTCBZZ * ELLSS48 Exceptions: LOTCBAK = TEEIBAK - ESTCBAK LOTCBHI = TEEIBHI - ESTCBHI LOTCBUS = TEEIBUS - ESTCBUS LOTCB48 = LOTCBUS - (LOTCBAK + LOTCBHI) 1990 forward: LOTCBZZ = TEESBZZ - ESTCBZZ LOTCBUS = TEEIBUS - ESTCBUS
LOTXB	Total electrical system energy losses allocated to the end-use sectors.	Billion Btu	LOTXBZZ = LOACBZZ + LOCCBZZ + LOICBZZ + LORCBZZ LOTXBUS = $\Sigma$ LOTXBZZ
LUACB	Lubricants consumed by the transportation sector.	Billion Btu	LUACBZZ = LUACPZZ * $6.065$ LUACBUS = $\Sigma$ LUACBZZ
LUACP	Lubricants consumed by the transportation sector.	Thousand barrels	Before 2010: LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ LUACPUS = ΣLUACPZZ 2010 forward: LUACPZZ is independent. LUACPUS is independent.
LUICB	Lubricants consumed by the industrial sector.	Billion Btu	LUICBZZ = LUICPZZ * 6.065 LUICBUS = ΣLUICBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
LUICP	Lubricants consumed by the industrial sector.	Thousand barrels	Before 2010: LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ LUICPUS = ΣLUICPZZ 2010 forward: LUICPZZ is independent. LUICPUS is independent.
LUINP	Lubricants sold to the industrial sector (through 2009).	Thousand barrels	LUINPZZ is independent. LUINPUS = ΣLUINPZZ
LUTCB	Lubricants total consumption.	Billion Btu	LUTCBZZ = LUACBZZ + LUICBZZ LUTCBUS = $\Sigma$ LUTCBZZ
LUTCP	Lubricants total consumption.	Thousand barrels	Before 2010: LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS LUTCPUS is independent. 2010 forward: LUTCPZZ = LUACPZZ + LUICPZZ LUTCPUS is independent.
LUTRP	Lubricants sold to the transportation sector (through 2009).	Thousand barrels	LUTRPZZ is independent. LUTRPUS = $\Sigma$ LUTRPZZ
LUTTP	Lubricants total sold (through 2009).	Thousand barrels	LUTTPZZ = LUINPZZ + LUTRPZZ LUTTPUS = $\Sigma$ LUTTPZZ
LUTXB	Lubricants total end-use consumption.	Billion Btu	LUTXBZZ = LUACBZZ + LUICBZZ LUTXBUS = $\Sigma$ LUTXBZZ
LUTXP	Lubricants total end-use consumption.	Thousand barrels	LUTXPZZ = LUACPZZ + LUICPZZ LUTXPUS = $\Sigma$ LUTXPZZ
MBICB	Motor gasoline blending components consumed by the industrial sector.	Billion Btu	MBICBZZ = MBTCBZZ MBICBUS = MBTCBUS
MBICP	Motor gasoline blending components consumed by the industrial sector.	Thousand barrels	MBICPZZ = MBTCPZZ MBICPUS = MBTCPUS
MBTCB	Motor gasoline blending components total consumption.	Billion Btu	MBTCBZZ = MBTCPZZ * MBTCKUS MBTCBUS = $\Sigma$ MBTCBZZ
MBTCKUS	Factor for converting motor gasoline blending components from physical units to Btu.	Million Btu per barrel	MBTCKUS is independent.
MBTCP	Motor gasoline blending components total consumption.	Thousand barrels	MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS MBTCPUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
MGACB	Motor gasoline consumed by the transportation sector.	Billion Btu	MGACBZZ = MGACPZZ * MGTCKUS MGACBUS = $\Sigma$ MGACBZZ
MGACP	Motor gasoline consumed by the transportation sector.	Thousand barrels	MGACPZZ = (MGTRPZZ / MGTTPZZ) *MGTCPZZ MGACPUS = $\Sigma$ MGACPZZ
MGAGP	Motor gasoline sold for agricultural use.	Thousand gallons	MGAGPZZ is independent. MGAGPUS = $\Sigma$ MGAGPZZ
MGBTP	Motor gasoline sold for boating use (2015 forward).	Thousand gallons	MGBTPZZ is independent. MGBTPUS = $\Sigma$ MGBTPZZ
MGCCB	Motor gasoline consumed by the commercial sector.	Billion Btu	MGCCBZZ = MGCCPZZ * MGTCKUS MGCCBUS = $\Sigma$ MGCCBZZ
MGCCP	Motor gasoline consumed by the commercial sector.	Thousand barrels	MGCCPZZ = (MGCMPZZ / MGTTPZZ) *MGTCPZZ MGCCPUS = $\Sigma$ MGCCPZZ
MGCMP	Motor gasoline sold to the commercial sector.	Thousand gallons	Before 2015: MGCMPZZ = MGMSPZZ + MGPNPZZ MGCMPUS = ΣMGCMPZZ 2015 forward: MGCMPZZ = MGLGPZZ + MGMSPZZ + MGPNPZ MGCMPUS = ΣMGCMPZZ
MGCUP	Motor gasoline sold for construction use.	Thousand gallons	MGCUPZZ is independent. MGCUPUS = $\Sigma$ MGCUPZZ
MGICB	Motor gasoline consumed by the industrial sector.	Billion Btu	MGICBZZ = MGICPZZ * MGTCKUS MGICBUS = $\Sigma$ MGICBZZ
MGICP	Motor gasoline consumed by the industrial sector.	Thousand barrels	MGICPZZ = (MGINPZZ / MGTTPZZ) * MGTCPZZ MGICPUS = $\Sigma$ MGICPZZ
MGINP	Motor gasoline sold to the industrial sector.	Thousand gallons	MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ MGINPUS = $\Sigma$ MGINPZZ
MGIYP	Motor gasoline sold for industrial and commercial use (Federal Highway Administration terminology).	Thousand gallons	MGIYPZZ is independent. MGIYPUS = ΣMGIYPZZ
MGLGP	Motor gasoline sold for lawn and garden use (2015 forward).	Thousand gallons	MGLGPZZ is independent. MGLGPUS = $\Sigma$ MGLGPZZ
MGMFP	Motor gasoline sold for highway use.	Thousand gallons	MGMFPZZ is independent. MGMFPUS = ΣMGMFPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
MGMRP	Motor gasoline sold for marine use (through 2014).	Thousand gallons	MGMRPZZ is independent.  MGMRPUS = $\Sigma$ MGMRPZZ
MGMSP	Motor gasoline sold for miscellaneous and unclassified uses.	Thousand gallons	MGMSPZZ is independent. MGMSPUS = ΣMGMSPZZ
MGPNP	Motor gasoline sold for public nonhighway use.	Thousand gallons	MGPNPZZ is independent. MGPNPUS = ΣMGPNPZZ
MGRVP	Motor gasoline sold for recreational vehicle use (2015 forward).	Thousand gallons	MGRVPZZ is independent. MGRVPUS = ΣMGRVPZZ
MGSFP	Special fuels sold (Federal Highway Administration terminology; primarily diesel fuel with small amounts of liquefied petroleum gases).	Thousand gallons	MGSFPZZ is independent. MGSFPUS = ΣMGSFPZZ
MGTCB	Motor gasoline total consumption.	Billion Btu	MGTCBZZ = MGACBZZ + MGCCBZZ + MGICBZZ MGTCBUS = $\Sigma$ MGTCBZZ
MGTCKUS	Factor for converting motor gasoline from physical units to Btu.	Million Btu per barrel	MGTCKUS is independent.
MGTCP	Motor gasoline total consumption.	Thousand barrels	MGTCPZZ = (MGTTPZZ / MGTTPUS) * MGTCPUS MGTCPUS is independent.
MGTRP	Motor gasoline sold to the transportation sector.	Thousand gallons	Before 2015: MGTRPZZ = MGMFPZZ + MGMRPZZ - MGSFPZZ MGTRPUS = ΣMGTRPZZ 2015 forward: MGTRPZZ = MGBTPZZ + MGMFPZZ + MGRVPZZ - MGSFPZZ MGTRPUS = ΣMGTRPZZ
MGTTP	Motor gasoline total sold.	Thousand gallons	MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ MGTTPUS = $\Sigma$ MGTTPZZ
MGTXB	Motor gasoline total end-use consumption.	Billion Btu	MGTXBZZ = MGACBZZ + MGCCBZZ + MGICBZZ MGTXBUS = $\Sigma$ MGTXBZZ
MGTXP	Motor gasoline total end-use consumption.	Thousand barrels	MGTXPZZ = MGACPZZ + MGCCPZZ + MGICPZZ MGTXPUS = $\Sigma$ MGTXPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
MMACB	Motor gasoline, excluding fuel ethanol, consumed by the transportation sector.	Billion Btu	Before 1993:  MMACBZZ = MGACBZZ  MMACBUS = MGACBUS  1993 forward:  MMACBZZ = MGACBZZ - EMACBZZ  MMACBUS = MGACBUS - EMACBUS
MMCCB	Motor gasoline, excluding fuel ethanol, consumed by the commercial sector.	Billion Btu	Before 1993:  MMCCBZZ = MGCCBZZ  MMCCBUS = MGCCBUS  1993 forward:  MMCCBZZ = MGCCBZZ - EMCCBZZ  MMCCBUS = MGCCBUS - EMCCBUS
MMICB	Motor gasoline, excluding fuel ethanol, consumed by the industrial sector.	Billion Btu	Before 1993:  MMICBZZ = MGICBZZ  MMICBUS = MGICBUS  1993 forward:  MMICBZZ = MGICBZZ - EMICBZZ  MMICBUS = MGICBUS - EMICBUS
MMTCB	Motor gasoline, excluding fuel ethanol, total consumption.	Billion Btu	Before 1993:  MMTCBZZ = MGTCBZZ  MMTCBUS = MGTCBUS  1993 forward:  MMTCBZZ = MGTCBZZ - EMTCBZZ  MMTCBUS = MGTCBUS - EMTCBUS
MSICB	Miscellaneous petroleum products consumed by the industrial sector.	Billion Btu	MSICBZZ = MSTCBZZ MSICBUS = MSTCBUS
MSICP	Miscellaneous petroleum products consumed by the industrial sector.	Thousand barrels	MSICPZZ = MSTCPZZ MSICPUS = MSTCPUS
MSTCB	Miscellaneous petroleum products total consumption.	Billion Btu	MSTCBZZ = MSTCPZZ * $5.796$ MSTCBUS = $\Sigma$ MSTCBZZ
MSTCP	Miscellaneous petroleum products total consumption.	Thousand barrels	MSTCPZZ = (OCVAVZZ / OCVAVUS) * MSTCPUS MSTCPUS is independent.
NAICB	Natural gasoline consumed by the industrial sector (through 1983).	Billion Btu	NAICBZZ = NATCBZZ NAICBUS = NATCBUS

**Table A1. Consumption variables (cont.)** 

<u>z</u> z
Z ZZ
Z ZZ
ZZ
Z
+ NGPLPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
NGINP	A portion of the natural gas delivered to the industrial sector.	Million cubic feet	NGINPZZ is independent. NGINPUS = $\Sigma$ NGINPZZ
NGLEP	Natural gas consumed as lease fuel.	Million cubic feet	NGLEPZZ is independent. NGLEPUS = $\Sigma$ NGLEPZZ
NGLPB	Natural gas consumed as lease and plant fuel.	Billion Btu	NGLPBZZ = NGLPPZZ * NGTXKZZ NGLPBUS = $\Sigma$ NGLPBZZ
NGLPP	Natural gas consumed as lease and plant fuel.	Million cubic feet	NGLPPZZ = NGLEPZZ + NGPLPZZ NGLPPUS = $\Sigma$ NGLPPZZ
NGPLP	Natural gas consumed as plant fuel.	Million cubic feet	NGPLPZZ is independent. NGPLPUS = $\Sigma$ NGPLPZZ
NGPZB	Natural gas for pipeline and distribution use.	Billion Btu	NGPZBZZ = NGPZPZZ * NGTXKZZ NGPZBUS = $\Sigma$ NGPZBZZ
NGPZP	Natural gas for pipeline and distribution use.	Million cubic feet	NGPZPZZ is independent. NGPZPUS = $\Sigma$ NGPZPZZ
NGRCB	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Billion Btu	NGRCBZZ = NGRCPZZ * NGTXKZZ NGRCBUS = ΣNGRCBZZ
NGRCP	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Million cubic feet	NGRCPZZ is independent. NGRCPUS = ΣNGRCPZZ
NGSFP	Supplemental gaseous fuels supplies.	Million cubic feet	NGSFPZZ is independent. NGSFPUS = $\Sigma$ NGSFPZZ
NGTCB	Natural gas total consumption (including supplemental gaseous fuels).	Billion Btu	NGTCBZZ = NGTCPZZ * NGTCKZZ NGTCBUS = $\Sigma$ NGTCBZZ
NGTCK	Factor for converting natural gas total consumption from physical units to Btu.	Thousand Btu per cubic foot	NGTCKZZ is independent. NGTCKUS = NGTCBUS / NGTCPUS
NGTCP	Natural gas total consumption (including supplemental gaseous fuels).	Million cubic feet	NGTCPZZ = NGACPZZ + NGCCPZZ + NGEIPZZ + NGICPZZ + NGRCPZZ NGTCPUS = ΣNGTCPZZ
NGTPB	Natural gas total consumption (including supplemental gaseous fuels) per capita.	Million Btu	NGTPB = NGTCB / TPOPP
NGTPP	Natural gas total consumption (including supplemental gaseous fuels) per capita.	Thousand cubic feet	NGTPP = NGTCP / TPOPP

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
NGTXB	Natural gas total end-use consumption (including supplemental gaseous fuels).	Billion Btu	NGTXBZZ = NGACBZZ + NGCCBZZ + NGICBZZ + NGRCBZZ NGTXBUS = ΣNGTXBZZ
NGTXK	Factor for converting natural gas used by enduse sectors from physical units to Btu.	Thousand Btu per cubic foot	NGTXKZZ = (NGTCBZZ - NGEIBZZ) / (NGTCPZZ - NGEIPZZ) NGTXKUS = (NGTCBUS - NGEIBUS) / (NGTCPUS - NGEIPUS)
NGTXP	Natural gas total end-use consumption (including supplemental gaseous fuels).	Million cubic feet	NGTXPZZ = NGACPZZ + NGCCPZZ + NGICPZZ + NGRCPZZ NGTXPUS = $\Sigma$ NGTXPZZ
NGTZP	Natural gas consumed in sectors that have supplemental gaseous fuels commingled with natural gas.	Million cubic feet	NGTZPZZ = NGCCPZZ + NGEIPZZ + NGINPZZ + NGRCPZZ NGTZPUS = $\Sigma$ NGTZPZZ
NGVHB	Natural gas consumed as vehicle fuel.	Billion Btu	NGVHBZZ = NGVHPZZ * NGTXKZZ NGVHBUS = $\Sigma$ NGVHBZZ
NGVHP	Natural gas consumed as vehicle fuel.	Million cubic feet	NGVHPZZ is independent. NGVHPUS = $\Sigma$ NGVHPZZ
NNACB	Natural gas consumed by the transportation sector.	Billion Btu	NNACBZZ = NGACBZZ NNACBUS = $\Sigma$ NNACBZZ
NNCCB	Natural gas consumed by the commercial sector (excluding supplemental gaseous fuels).	Billion Btu	NNCCBZZ = NGCCBZZ - SFCCBZZ NNCCBUS = $\Sigma$ NNCCBZZ
NNEIB	Natural gas consumed by the electric power sector (excluding supplemental gaseous fuels).	Billion Btu	NNEIBZZ = NGEIBZZ - SFEIBZZ NNEIBUS = $\Sigma$ NNEIBZZ
NNICB	Natural gas consumed by the industrial sector (excluding supplemental gaseous fuels).	Billion Btu	NNICBZZ = NGICBZZ - SFINBZZ NNICBUS = $\Sigma$ NNICBZZ
NNRCB	Natural gas consumed by the residential sector (excluding supplemental gaseous fuels).	Billion Btu	NNRCBZZ = NGRCBZZ - SFRCBZZ NNRCBUS = $\Sigma$ NNRCBZZ
NNTCB	Natural gas total consumption (excluding supplemental gaseous fuels).	Billion Btu	NNTCBZZ = NGTCBZZ - SFTCBZZ NNTCBUS = $\Sigma$ NNTCBZZ
NTCAS	Natural gas turbine generating units capacity factor.	Percent	NTCASZZ is independent. NTCASUS is independent.
NUCAS	Nuclear generating units capacity factor.	Percent	NUCASZZ is independent. NUCASUS is independent.

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
NUEGB	Nuclear energy consumed for electricity generation by the electric power sector.	Billion Btu	NUEGBZZ = NUEGPZZ * NUETKUS NUEGBUS = $\Sigma$ NUEGBZZ
NUEGP	Nuclear electricity net generation in the electric power sector.	Million kilowatthours	NUEGPZZ is independent. NUEGPUS = $\Sigma$ NUEGPZZ
NUETB	Nuclear energy consumed for electricity generation, total.	Billion Btu	NUETBZZ = NUEGBZZ NUETBUS = NUEGBUS
NUETKUS	Factor for converting electricity generated from nuclear power from physical units to Btu.	Thousand Btu per kilowatthour	NUETKUS is independent.
NUETP	Nuclear electricity total net generation.	Million kilowatthours	NUETPZZ = NUEGPZZ NUETPUS = $\Sigma$ NUETPZZ
NUGBP	Nuclear generating units net summer capacity in all sectors.	Thousand kilowatts	NUGBPZZ is independent. NUGBPUS is independent.
NYCAS	Natural gas conventional steam generating units capacity factor.	Percent	NYCASZZ is independent. NYCASUS is independent.
OCVAV	Value of shipments (value added prior to 2001) for the industrial organic chemical manufacturing industry.	Million dollars	OCVAVZZ is independent. OCVAVUS = ΣOCVAVZZ
OHICB	Other hydrocarbon gas liquids (other than propane) consumed by the industrial sector.	Billion Btu	OHICB = HLICB - PQICB
OJGBP	Other gases generating units net summer capacity in all sectors.	Thousand kilowatts	OJGBPZZ is independent. OJGBPUS is independent.
OMTCB	Other petroleum products consumption, excluding biofuels.	Billion Btu	OMTCBZZ = OPTCBZZ - BXSUBZZ OMTCBUS = OPTCBUS - BXSUBUS
OPACB	Other petroleum products consumed by the transportation sector.	Billion Btu	OPACBZZ = BXSUBZZ OPACBUS = BXSUBUS
OPACP	Other petroleum products consumed by the transportation sector.	Thousand barrels	OPACPZZ = BXSUPZZ OPACPUS = BXSUPUS
OPICB	Other petroleum products consumed by the industrial sector.	Billion Btu	OPICBZZ = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ + FSICBZZ + MBICBZZ + MSICBZZ + SGICBZZ + SNICBZZ + UOICBZZ + WXICBZZ OPICBUS = ΣΟΡΙCBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
OPICP	Other petroleum products consumed by the industrial sector.	Thousand barrels	OPICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ + FSICPZZ + MBICPZZ + MSICPZZ + SGICPZZ + SNICPZZ + UOICPZZ + WXICPZZ OPICPUS = ΣΟΡΙCΡΖΖ
OPTCB	Other petroleum products total consumption.	Billion Btu	OPTCBZZ = ABTCBZZ + BXSUBZZ + COTCBZZ + FNTCBZZ + FOTCBZZ + FSTCBZZ + MBTCBZZ + MSTCBZZ + SGTCBZZ + SNTCBZZ + UOTCBZZ + WXTCBZZ OPTCBUS = ABTCBUS + BXSUBUS + COTCBUS + FNTCBUS + FOTCBUS + FSTCBUS + MBTCBUS + MSTCBUS + SGTCBUS + SNTCBUS + UOTCBUS + WXTCBUS
OPTCP	Other petroleum products total consumption.	Thousand barrels	OPTCPZZ = ABTCPZZ + BXSUPZZ + COTCPZZ + FNTCPZZ + FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + WXTCPZZ OPTCPUS = ABTCPUS + BXSUPUS + COTCPUS + FNTCPUS + FOTCPUS + FSTCPUS + MBTCPUS + MSTCPUS + SGTCPUS + SNTCPUS + UOTCPUS + WXTCPUS
OPTXB	Other petroleum products total end-use consumption.	Billion Btu	OPTXBZZ = OPACBZZ + OPICBZZ OPTXBUS = OPACBUS + OPICBUS
OPTXP	Other petroleum products total end-use consumption.	Thousand barrels	OPTXPZZ = OPACPZZ + OPICPZZ OPTXPUS = OPACPUS + OPICPUS
OTGBP	Other generating units net summer capacity in all sectors.	Thousand kilowatts	OTGBPZZ is independent. OTGBPUS is independent.
P1ICB	Asphalt and road oil, kerosene, lubricants, petroleum coke, and "other petroleum products" consumed by the industrial sector.	Billion Btu	P1ICBZZ = ARICBZZ + KSICBZZ + LUICBZZ + OPICBZZ + PCICBZZ P1ICBUS = ARICBUS + KSICBUS + LUICBUS + OPICBUS + PCICBUS
P1ICP	Asphalt and road oil, kerosene, lubricants, petroleum coke, and "other petroleum products" consumed by the industrial sector.	Thousand barrels	P1ICPZZ = ARICPZZ + KSICPZZ + LUICPZZ + OPICPZZ + PCICPZZ P1ICPUS = ARICPUS + KSICPUS + LUICPUS + OPICPUS + PCICPUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
P1TCB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total consumption.	Billion Btu	P1TCBZZ = ARTCBZZ + AVTCBZZ + KSTCBZZ + LUTCBZZ + OPTCBZZ + PCTCBZZ P1TCBUS = ARTCBUS + AVTCBUS + KSTCBUS + LUTCBUS + OPTCBUS + PCTCBUS
P1TCP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total consumption.	Thousand barrels	P1TCPZZ = ARTCPZZ + AVTCPZZ + KSTCPZZ + LUTCPZZ + OPTCPZZ + PCTCPZZ P1TCPUS = ARTCPUS + AVTCPUS + KSTCPUS + LUTCPUS + OPTCPUS + PCTCPUS
P1TXB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total end-use consumption.	Billion Btu	P1TXB = ARTXB + AVTXB + KSTXB + LUTXB + OPTXB + PCTXB
P1TXP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total end-use consumption.	Thousand barrels	P1TXP = ARTXP + AVTXP + KSTXP + LUTXP + OPTXP + PCTXP
PAACB	All petroleum products consumed by the transportation sector.	Billion Btu	PAACBZZ = AVACBZZ + DFACBZZ + HLACBZZ + JFACBZZ + LUACBZZ + MGACBZZ + OPACBZZ + RFACBZZ PAACBUS = AVACBUS + DFACBUS + HLACBUS + JFACBUS + LUACBUS + MGACBUS + OPACBUS + RFACBUS
PAACKUS	Factor for converting all petroleum products consumed by the transportation sector from physical units to Btu for the United States.	Million Btu per barrel	PAACKUS = PAACBUS / PAACPUS
PAACP	All petroleum products consumed by the transportation sector.	Thousand barrels	PAACPZZ = AVACPZZ + DFACPZZ + HLACPZZ + JFACPZZ + LUACPZZ + MGACPZZ + OPACPZZ + RFACPZZ PAACPUS = AVACPUS + DFACPUS + HLACPUS + JFACPUS + LUACPUS + MGACPUS + OPACPUS + RFACPUS
PACAS	Petroleum generating units capacity factor.	Percent	PACASZZ is independent. PACASUS is independent.
PACCB	All petroleum products consumed by the commercial sector.	Billion Btu	PACCBZZ = DFCCBZZ + HLCCBZZ + KSCCBZZ + MGCCBZZ + PCCCBZZ + RFCCBZZ PACCBUS = $\Sigma$ PACCBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
PACCKUS	Factor for converting all petroleum products consumed by the commercial sector from physical units to Btu for the United States.	Million Btu per barrel	PACCKUS = PACCBUS / PACCPUS
PACCP	All petroleum products consumed by the commercial sector.	Thousand barrels	PACCPZZ = DFCCPZZ + HLCCPZZ + KSCCPZZ + MGCCPZZ + PCCCPZZ + RFCCPZZ PACCPUS = ΣPACCPZZ
PAEIB	All petroleum products consumed by the electric power sector.	Billion Btu	PAEIBZZ = DFEIBZZ + JKEUBZZ + PCEIBZZ + RFEIBZZ PAEIBUS = $\Sigma$ PAEIBZZ
PAEIKUS	Factor for converting all petroleum products consumed by the electric power sector from physical units to Btu for the United States.	Million Btu per barrel	PAEIKUS = PAEIBUS / PAEIPUS
PAEIP	All petroleum products consumed by the electric power sector.	Thousand barrels	PAEIPZZ = DFEIPZZ + JKEUPZZ + PCEIPZZ + RFEIPZZ PAEIPUS = $\Sigma$ PAEIPZZ
PAGBP	Petroleum generating units net summer capacity in all sectors.	Thousand kilowatts	PAGBPZZ is independent. PAGBPUS is independent.
PAHCBUS	All petroleum products consumed by the residential and commercial sectors combined.	Billion Btu	PAHCBUS = PACCBUS + PARCBUS
PAHCKUS	Factor for converting all petroleum products consumed by the residential and commercial sectors combined from physical units to Btu for the United States.	Million Btu per barrel	PAHCKUS = PAHCBUS / PAHCPUS
PAHCPUS	All petroleum products consumed by the residential and commercial sectors combined for the United States.	Thousand barrels	PAHCPUS = PACCPUS + PARCPUS
PAICB	All petroleum products consumed by the industrial sector.	Billion Btu	PAICBZZ = ARICBZZ + DFICBZZ + HLICBZZ + KSICBZZ + LUICBZZ + MGICBZZ + OPICBZZ + PCICBZZ + RFICBZZ PAICBUS = ΣΡΑΙCΒΖΖ
PAICKUS	Factor for converting all petroleum products consumed by the industrial sector from physical units to Btu for the United States.	Million Btu per barrel	PAICKUS = PAICBUS / PAICPUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
PAICP	All petroleum products consumed by the industrial sector.	Thousand barrels	PAICPZZ = ARICPZZ + DFICPZZ + HLICPZZ + KSICPZZ + LUICPZZ + MGICPZZ + OPICPZZ + PCICPZZ + RFICPZZ PAICPUS = ΣPAICPZZ
PARCB	All petroleum products consumed by the residential sector.	Billion Btu	PARCBZZ = DFRCBZZ + HLRCBZZ + KSRCBZZ PARCBUS = $\Sigma$ PARCBZZ
PARCKUS	Factor for converting all petroleum products consumed by the residential sector from physical units to Btu for the United States.	Million Btu per barrel	PARCKUS = PARCBUS / PARCPUS
PARCP	All petroleum products consumed by the residential sector.	Thousand barrels	PARCPZZ = DFRCPZZ + HLRCPZZ + KSRCPZZ PARCPUS = $\Sigma$ PARCPZZ
PATCB	All petroleum products total consumption.	Billion Btu	PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + HLTCBZZ + JFTCBZZ + KSTCBZZ + LUTCBZZ + MGTCBZZ + OPTCBZZ + PCTCBZZ + RFTCBZZ PATCBUS = ARTCBUS + AVTCBUS + DFTCBUS + HLTCBUS + JFTCBUS + KSTCBUS + LUTCBUS + MGTCBUS + OPTCBUS + PCTCBUS + RFTCBUS
PATCKUS	Factor for converting all petroleum products consumed by all sectors from physical units to Btu for the United States.	Million Btu per barrel	PATCKUS = PATCBUS / PATCPUS
PATCP	All petroleum products total consumption.	Thousand barrels	PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + HLTCPZZ + JFTCPZZ + KSTCPZZ + LUTCPZZ + MGTCPZZ + OPTCPZZ + PCTCPZZ + RFTCPZZ PATCPUS = ARTCPUS + AVTCPUS + DFTCPUS + HLTCPUS + JFTCPUS + KSTCPUS + LUTCPUS + MGTCPUS + OPTCPUS + PCTCPUS + RFTCPUS
PATPB	All petroleum products total consumption per capita.	Million Btu	PATPB = PATCB / TPOPP
PATPP	All petroleum products total consumption per capita.	Barrels	PATPP = PATCP / TPOPP

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
PATXB	All petroleum products total end-use consumption.	Billion Btu	PATXBZZ = ARTXBZZ + AVTXBZZ + DFTXBZZ + HLTXBZZ + JFTXBZZ + KSTXBZZ + LUTXBZZ + MGTXBZZ + OPTXBZZ + PCTXBZZ + RFTXBZZ PATXBUS = ARTXBUS + AVTXBUS + DFTXBUS + HLTXBUS + JFTXBUS + KSTXBUS + LUTXBUS + MGTXBUS + OPTXBUS + PCTXBUS + RFTXBUS
PATXP	All petroleum products total end-use consumption.	Thousand barrels	PATXPZZ = ARTXPZZ + AVTXPZZ + DFTXPZZ + HLTXPZZ + JFTXPZZ + KSTXPZZ + LUTXPZZ + MGTXPZZ + OPTXPZZ + PCTXPZZ + RFTXPZZ PATXPUS = ARTXPUS + AVTXPUS + DFTXPUS + HLTXPUS + JFTXPUS + KSTXPUS + LUTXPUS + MGTXPUS + OPTXPUS + PCTXPUS + RFTXPUS
PCC3M	Petroleum coke consumed for combined-heat- and-power in the commercial sector.	Thousand tons	PCC3MZZ is independent. PCC3MUS = $\Sigma$ PCC3MZZ
PCCCB	Petroleum coke consumed by the commercial sector.	Billion Btu	PCCCBZZ = PCCCPZZ * PCMKKUS PCCCBUS = $\Sigma$ PCCCBZZ
PCCCP	Petroleum coke consumed by the commercial sector.	Thousand barrels	PCCCPZZ = PCC3MZZ * 5 PCCCPUS = ΣPCCCPZZ
PCCTKUS	Factor for converting petroleum coke, catalyst coke from physical units to Btu.	Million Btu per barrel	PCCTKUS is independent.
PCEIB	Petroleum coke consumed by the electric power sector.	Billion Btu	PCEIBZZ = PCEIPZZ * PCMKKUS PCEIBUS = $\Sigma$ PCEIBZZ
PCEIM	Petroleum coke consumed by the electric power sector.	Thousand tons	PCEIMZZ is independent. PCEIMUS = $\Sigma$ PCEIMZZ
PCEIP	Petroleum coke consumed by the electric power sector.	Thousand barrels	PCEIPZZ = PCEIMZZ * 5 PCEIPUS = ΣPCEIPZZ
PCI3B	Petroleum coke consumed for combined-heat- and-power in the industrial sector.	Billion Btu	PCI3BZZ = PCI3PZZ * PCMKKUS PCI3BUS = ΣPCI3BZZ
PCI3M	Petroleum coke consumed for combined-heat- and-power in the industrial sector.	Thousand tons	PCI3MZZ is independent. PCI3MUS = $\Sigma$ PCI3MZZ
PCI3P	Petroleum coke consumed for combined-heat- and-power in the industrial sector.	Thousand barrels	PCI3PZZ = PCI3MZZ * 5 PCI3PUS = ΣPCI3PZZ
PCICB	Petroleum coke consumed in the industrial	Billion Btu	PCICBZZ = PCI3BZZ + PCOCBZZ + PCRFBZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
PCICP	Petroleum coke consumed in the industrial sector.	Thousand barrels	PCICPZZ = PCI3PZZ + PCOCPZZ + PCRFPZZ PCICPUS = PCTCPUS - PCCCPUS - PCEIPUS
PCMKKUS	Factor for converting petroleum coke, marketable coke from physical units to Btu.	Million Btu per barrel	PCMKKUS is independent.
PCOCB	Petroleum coke consumed in the industrial sector other than for refinery use and combined-heat-and-power.	Billion Btu	PCOCBZZ = PCOCPZZ * PCMKKUS PCOCBUS = ΣPCOCBZZ
PCOCP	Petroleum coke consumed in the industrial sector other than for refinery use and combined-heat-and-power.	Thousand barrels	PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS PCOCPUS = PCICPUS - PCI3PUS - PCRFPUS
PCRFB	Petroleum coke consumed as refinery fuel.	Billion Btu	PCRFBZZ = PCRFPZZ * PCCTKUS PCRFBUS = $\Sigma$ PCRFBZZ
PCRFP	Petroleum coke consumed as refinery fuel.	Thousand barrels	Before 1981: PCRFPZZ is independent for selected states. PCRFPZZ = (CTCAPZZ / CTCAPGZ) * PCRFPGZ for states belonging to a specific state group, GZ. 1981 through 2012: PCRFPZZ = (CTCAPZZ / CTCAPPZ) * PCRFPPZ for states belonging to a specific PADD, PZ. 2013 forward: PCRFPZZ is independent. PCRFPUS = ΣPCRFPZZ for all years.
PCTCB	Petroleum coke total consumption.	Billion Btu	PCTCBZZ = PCCCBZZ + PCEIBZZ + PCICBZZ PCTCBUS = $\Sigma$ PCTCBZZ
PCTCP	Petroleum coke total consumption.	Thousand barrels	PCTCPZZ = PCCCPZZ + PCEIPZZ + PCICPZZ PCTCPUS is independent.
PCTXB	Petroleum coke total end-use consumption.	Billion Btu	PCTXBZZ = PCCCBZZ + PCICBZZ PCTXBUS = $\Sigma$ PCTXBZZ
PCTXP	Petroleum coke total end-use consumption.	Thousand barrels	PCTXPZZ = PCCCPZZ + PCICPZZ PCTXPUS = $\Sigma$ PCTXPZZ
PHVHN	Plug-in hybrid electric vehicle (PHEV) light-duty stocks.	Thousands of registered vehicles	PHVHNZZ is independent. PHVHNUS = $\Sigma$ PHVHNZZ
PHVHP	Electricity consumed for plug-in hybrid electric vehicle (PHEV) use.	Million kilowatthours	PHVHPZZ is independent. PHVHPUS = ΣPHVHPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
PIVAV	Value of shipments (value added prior to 2001) for the paint and coating manufacturing industry.	Million dollars	PIVAVZZ is independent. PIVAVUS = $\Sigma$ PIVAVZZ
PLICB	Plant condensate consumed by the industrial sector (through 1983).	Billion Btu	PLICBZZ = PLTCBZZ PLICBUS = PLTCBUS
PLICP	Plant condensate consumed by the industrial sector (through 1983).	Thousand barrels	PLICPZZ = PLTCPZZ PLICPUS = PLTCPUS
PLTCB	Plant condensate total consumption (through 1983).	Billion Btu	PLTCBZZ = PLTCPZZ * $5.418$ PLTCBUS = $\Sigma$ PLTCBZZ
PLTCP	Plant condensate total consumption (through 1983).	Thousand barrels	PLTCPZZ = PLTCPUS * FNCASZZ PLTCPUS is independent.
PMACB	All petroleum products, excluding biofuels, consumed by the transportation sector.	Billion Btu	PMACBZZ = AVACBZZ + DMACBZZ + JFACBZZ + HLACBZZ + LUACBZZ + MMACBZZ + RFACBZZ PMACBUS = AVACBUS + DMACBUS + JFACBUS + HLACBUS + LUACBUS + MMACBUS + RFACBUS
PMCCB	All petroleum products, excluding biofuels, consumed by the commercial sector.	Billion Btu	PMCCBZZ = DFCCBZZ + HLCCBZZ + KSCCBZZ + MMCCBZZ + PCCCBZZ + RFCCBZZ PMCCBUS = DFCCBUS + HLCCBUS + KSCCBUS + MMCCBUS + PCCCBUS + RFCCBUS
PMICB	All petroleum products, excluding biofuels, consumed by the industrial sector.	Billion Btu	PMICBZZ = ARICBZZ + DFICBZZ + HLICBZZ+ KSICBZZ + LUICBZZ + MMICBZZ + OPICBZZ + PCICBZ + RFICBZZ PMICBUS = ARICBUS + DFICBUS + HLICBUS + KSICBUS + LUICBUS + MMICBUS + OPICBUS + PCICBUS + RFICBUS
PMTCB	All petroleum products, excluding biofuels, total consumption.	Billion Btu	PMTCBZZ = ARTCBZZ + AVTCBZZ + DMTCBZZ + HLTCBZZ + JFTCBZZ + KSTCBZZ + LUTCBZZ + MMTCBZZ + OMTCBZZ + PCTCBZZ + RFTCBZZ PMTCBUS = ARTCBUS + AVTCBUS + DMTCBUS + HLTCBUS + JFTCBUS + KSTCBUS + LUTCBUS + MMTCBUS + OMTCBUS + PCTCBUS + RFTCBUS
PPICB	Natural gasoline (pentanes plus) consumed by the industrial sector.	Billion Btu	PPICBZZ = PPTCBZZ PPICBUS = PPTCBUS
PPICP	Natural gasoline (pentanes plus) consumed by the industrial sector.	Thousand barrels	PPICPZZ = PPTCPZZ PPICPUS = PPTCPUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
PPTCB	Natural gasoline (pentanes plus) total consumption.	Billion Btu	PPTCBZZ = PPTCPZZ * 4.638 PPTCBUS = ΣPPTCBZZ
PPTCP	Natural gasoline (pentanes plus) total consumption.	Thousand barrels	PPTCPZZ = PPTCPUS * FNCASZZ PPTCPUS is independent.
PQACB	Propane consumed by the transportation sector.	Billion Btu	PQACBZZ = PQACPZZ * $3.841$ PQACBUS = $\Sigma$ PQACBZZ
PQACP	Propane consumed by the transportation sector.	Thousand barrels	PQACPZZ is independent. PQACPUS is independent.
PQCCB	Propane consumed by the commercial sector.	Billion Btu	PQCCBZZ = PQCCPZZ * $3.841$ PQCCBUS = $\Sigma$ PQCCBZZ
PQCCP	Propane consumed by the commercial sector.	Thousand barrels	PQCCPZZ is independent. PQCCPUS is independent.
PQICB	Propane consumed by the industrial sector.	Billion Btu	PQICBZZ = PQICPZZ * $3.841$ PQICBUS = $\Sigma$ PQICBZZ
PQICP	Propane consumed by the industrial sector.	Thousand barrels	PQICPZZ is independent. PQICPUS is independent.
PQRCB	Propane consumed by the residential sector.	Billion Btu	PQRCBZZ = PQRCPZZ * $3.841$ PQRCBUS = $\Sigma$ PQRCBZZ
PQRCP	Propane consumed by the residential sector.	Thousand barrels	PQRCPZZ is independent. PQRCPUS is independent.
PQTCB	Propane total consumption.	Billion Btu	PQTCBZZ = PQACBZZ + PQCCBZZ + PQICBZZ + PQRCBZZ PQTCBUS = $\Sigma$ PQTCBZZ
PQTCP	Propane total consumption.	Thousand barrels	PQTCPZZ = PQACPZZ + PQCCPZZ + PQICPZZ + PQRCPZZ PQTCPUS is independent.
PQTXB	Propane total end-use consumption.	Billion Btu	PQTXBZZ = PQACBZZ + PQCCBZZ + PQICBZZ + PQRCBZZ PQTXBUS = ΣPQTXBZZ
PQTXP	Propane total end-use consumption.	Thousand barrels	PQTXPZZ = PQTCPZZ PQTXPUS = $\Sigma$ PQTXPZZ
PYICB	Propylene from refineries consumed by the industrial sector.	Billion Btu	PYICBZZ = PYTCBZZ PYICBUS = PYTCBUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
PYICP	Propylene from refineries consumed by the industrial sector.	Thousand barrels	PYICPZZ = PYTCPZZ PYICPUS = PYTCPUS
PYTCB	Propylene from refineries total consumption.	Billion Btu	PYTCBZZ = PYTCPZZ * 3.835 PYTCBUS = ΣPYTCBZZ
PYTCP	Propylene from refineries total consumption.	Thousand barrels	PYTCPZZ is independent. PYTCPUS is independent.
RDICP	Road oil consumed by the industrial sector (through 1982).	Thousand barrels	RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS RDICPUS = $\Sigma$ RDICPZZ
RDINP	Road oil sold to the industrial sector (through 1982).	Short tons	RDINPZZ is independent. RDINPUS = $\Sigma$ RDINPZZ
RDTCP	Road oil total consumption (through 1982).	Thousand barrels	RDTCPZZ = RDICPZZ RDTCPUS is independent.
REACB	Renewable energy sources consumed by the transportation sector.	Billion Btu	REACBZZ = BDACBZZ + B1ACBZZ + EMACBZZ REACBUS = BDACBUS + B0ACBUS + B1ACBUS + EMACBUS
RECCB	Renewable energy sources consumed by the commercial sector.	Billion Btu	RECCBZZ = EMCCBZZ + GECCBZZ + HYCCBZZ + SOCCBZZ + WWCCBZZ + WYCCBZZ RECCBUS = EMCCBUS + GECCBUS + HYCCBUS + SOCCBUS + WWCCBUS + WYCCBUS
REEIB	Renewable energy sources consumed by the electric power sector.	Billion Btu	REEIBZZ = GEEGBZZ + HYEGBZZ + SOEGBZZ + WWEIBZZ + WYEGBZZ REEIBUS = GEEGBUS + HYEGBUS + SOEGBUS + WWEIBUS + WYEGBUS
REGBP	Renewable energy total generating units net summer capacity in all sectors.	Thousand kilowatts	REGBPZZ is independent. REGBPUS is independent.
REICB	Renewable energy sources consumed by the industrial sector.	Billion Btu	REICBZZ = BDLCBZZ + EMICBZZ + EMLCBZZ + GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ + WYICBZZ REICBUS = BDLCBUS + EMICBUS + EMLCBUS + GEICBUS + HYICBUS + SOICBUS + WWICBUS + WYICBUS
RERCB	Renewable energy sources consumed by the residential sector.	Billion Btu	RERCBZZ = GERCBZZ + SORCBZZ + WDRCBZZ RERCBUS = GERCBUS + SORCBUS + WDRCBUS

## **Table A1. Consumption variables (cont.)**

MSN	Description	Unit	Formula
RETCB	Renewable energy total consumption.	Billion Btu	RETCBZZ = BDLCBZZ + BDTCBZZ + B1TCBZZ + EMLCBZZ + EMTCBZZ + GETCBZZ + HYTCBZZ + SOTCBZZ + WWTCBZZ + WYTCBZZ RETCBUS = BDLCBUS + BDTCBUS + BOTCBUS + B1TCBUS + EMLCBUS + EMTCBUS + GETCBUS + HYTCBUS + SOTCBUS + WWTCBUS + WYTCBUS
RFACB	Residual fuel oil consumed by the transportation sector.	Billion Btu	RFACBZZ = RFACPZZ * $6.287$ RFACBUS = $\Sigma$ RFACBZZ
RFACP	Residual fuel oil consumed by the transportation sector.	Thousand barrels	RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ RFACPUS = $\Sigma$ RFACPZZ
RFBKP	Residual fuel oil sold for vessel bunkering use, excluding deliveries to the military.	Thousand barrels	RFBKPZZ is independent. RFBKPUS = $\Sigma$ RFBKPZZ
RFCCB	Residual fuel oil consumed by the commercial sector.	Billion Btu	RFCCBZZ = RFCCPZZ * 6.287 RFCCBUS = ΣRFCCBZZ
RFCCP	Residual fuel oil consumed by the commercial sector.	Thousand barrels	RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ RFCCPUS = $\Sigma$ RFCCPZZ
RFCMP	Residual fuel oil sold to the commercial sector.	Thousand barrels	RFCMPZZ is independent. RFCMPUS = $\Sigma$ RFCMPZZ
RFEIB	Residual fuel oil consumed by the electric power sector.	Billion Btu	RFEIBZZ = RFEIPZZ * $6.287$ RFEIBUS = $\Sigma$ RFEIBZZ
RFEIP	Residual fuel oil consumed by the electric power sector.	Thousand barrels	RFEIPZZ is independent. RFEIPUS = ΣRFEIPZZ
RFIBP	A portion of residual fuel oil sold for industrial use, including industrial space heating.	Thousand barrels	RFIBPZZ is independent. RFIBPUS = ΣRFIBPZZ
RFICB	Residual fuel oil consumed by the industrial sector.	Billion Btu	RFICBZZ = RFICPZZ * 6.287 RFICBUS = ΣRFICBZZ
RFICP	Residual fuel oil consumed by the industrial sector.	Thousand barrels	RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ RFICPUS = $\Sigma$ RFICPZZ
RFINP	Residual fuel oil sold to the industrial sector.	Thousand barrels	RFINPZZ = RFIBPZZ + RFMSPZZ + RFOCPZZ RFINPUS = $\Sigma$ RFINPZZ
RFMIP	Residual fuel oil sold to the military, regardless of use.	Thousand barrels	RFMIPZZ is independent. RFMIPUS = $\Sigma$ RFMIPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
RFMSP	Residual fuel oil sold for miscellaneous uses.	Thousand barrels	RFMSPZZ is independent. RFMSPUS = $\Sigma$ RFMSPZZ
RFNCP	Residual fuel oil consumption by all end-use sectors.	Thousand barrels	RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS RFNCPUS = RFTCPUS - RFEIPUS
RFNDP	Residual fuel oil sales to all end-use sectors.	Thousand barrels	RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ RFNDPUS = $\Sigma$ RFNDPZZ
RFOCP	Residual fuel oil sold for use by oil companies.	Thousand barrels	RFOCPZZ is independent. RFOCPUS = $\Sigma$ RFOCPZZ
RFRRP	Residual fuel oil sold for use by railroads.	Thousand barrels	RFRRPZZ is independent. RFRRPUS = $\Sigma$ RFRRPZZ
RFTCB	Residual fuel oil total consumption.	Billion Btu	RFTCBZZ = RFACBZZ + RFCCBZZ + RFEIBZZ + RFICBZZ RFTCBUS = $\Sigma$ RFTCBZZ
RFTCP	Residual fuel oil total consumption.	Thousand barrels	RFTCPZZ = RFEIPZZ + RFNCPZZ RFTCPUS is independent.
RFTRP	Residual fuel oil sold to the transportation sector.	Thousand barrels	RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ RFTRPUS = SRFTRPZZ
RFTXB	Residual fuel oil total end-use consumption.	Billion Btu	RFTXBZZ = RFACBZZ + RFCCBZZ + RFICBZZ RFTXBUS = $\Sigma$ RFTXBZZ
RFTXP	Residual fuel oil total end-use consumption.	Thousand barrels	RFTXPZZ = RFACPZZ + RFCCPZZ + RFICPZZ RFTXPUS = $\Sigma$ RFTXPZZ
SFCCB	Supplemental gaseous fuels consumed by the commercial sector.	Billion Btu	SFCCBZZ = SFCCPZZ * NGTXKZZ SFCCBUS = $\Sigma$ SFCCBZZ
SFCCP	Supplemental gasesous fuels consumed by the commercial sector.	Million cubic feet	SFCCPZZ = NGSFPZZ * (NGCCPZZ / NGTZPZZ) SFCCPUS = $\Sigma$ SFCCPZZ
SFEIB	Supplemental gaseous fuels consumed by the electric power sector.	Billion Btu	SFEIBZZ = SFEIPZZ * NGEIKZZ SFEIBUS = $\Sigma$ SFEIBZZ
SFEIP	Supplemental gaseous fuels consumed by the electric power sector.	Million cubic feet	SFEIPZZ = NGSFPZZ * (NGEIPZZ / NGTZPZZ) SFEIPUS = $\Sigma$ SFEIPZZ
SFINB	Supplemental gaseous fuels consumed by the industrial sector.	Billion Btu	SFINBZZ = SFINPZZ * NGTXKZZ SFINBUS = $\Sigma$ SFINBZZ
SFINP	Supplemental gaseous fuels consumed by the industrial sector.	Million cubic feet	SFINPZZ = NGSFPZZ * (NGINPZZ / NGTZPZZ) SFINPUS = $\Sigma$ SFINPZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
SFRCB	Supplemental gaseous fuels consumed by the residential sector.	Billion Btu	SFRCBZZ = SFRCPZZ * NGTXKZZ SFRCBUS = ΣSFRCBZZ
SFRCP	Supplemental gaseous fuels consumed by the residential sector.	Million cubic feet	SFRCPZZ = NGSFPZZ * (NGRCPZZ / NGTZPZZ) SFRCPUS = $\Sigma$ SFRCPZZ
SFTCB	Supplemental gaseous fuels total consumption.	Billion Btu	SFTCBZZ = SFCCBZZ + SFEIBZZ + SFINBZZ + SFRCBZZ SFTCBUS = $\Sigma$ SFTCBZZ
SFTCP	Supplemental gaseous fuels total consumption.	Million cubic feet	SFTCPZZ = SFCCPZZ + SFEIPZZ + SFINPZZ + SFRCPZZ SFTCPUS = $\Sigma$ SFTCPZZ
SGICB	Still gas consumed by the industrial sector.	Billion Btu	SGICBZZ = SGTCBZZ SGICBUS = SGTCBUS
SGICP	Still gas consumed by the industrial sector.	Thousand barrels	SGICPZZ = SGTCPZZ SGICPUS = SGTCPUS
SGTCB	Still gas total consumption.	Billion Btu	Before 2016: SGTCBZZ = SGTCPZZ * 6.000 SGTCBUS = ΣSGTCBZZ 2016 forward: SGTCBZZ = SGTCPZZ * 6.287 SGTCBUS = ΣSGTCBZZ
SGTCP	Still gas total consumption.	Thousand barrels	SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS SGTCPUS is independent.
SHCAS	Solar thermal generating units capacity factor.	Percent	SHCASZZ is independent. SHCASUS is independent.
SNICB	Special naphthas consumed by the industrial sector.	Billion Btu	SNICBZZ = SNTCBZZ SNICBUS = SNTCBUS
SNICP	Special naphthas consumed by the industrial sector.	Thousand barrels	SNICPZZ = SNTCPZZ SNICPUS = SNTCPUS
SNTCB	Special naphthas total consumption.	Billion Btu	SNTCBZZ = SNTCPZZ * 5.248 SNTCBUS = ΣSNTCBZZ
SNTCP	Special naphthas total consumption.	Thousand barrels	SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS SNTCPUS is independent.
SOC5B	Solar energy consumed for electricity generation at utility-scale commercial CHP and electricity-only facilities.	Billion Btu	SOC5BZZ = SOC5PZZ * 3.412 SOC5BUS = ΣSOC5BZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
SOC5P	Solar thermal and photovoltaic electricity net generation at utility-scale commercial CHP and electricity-only facilities.	Million kilowatthours	SOC5PZZ is independent. SOC5PUS = ΣSOC5PZZ
SOC7B	Solar energy consumed for electricity generation at small-scale commercial facilities.	Billion Btu	SOC7BZZ = SOC7PZZ * $3.412$ SOC7BUS = $\Sigma$ SOC7BZZ
SOC7P	Photovoltaic electricity generation at small-scale commercial facilities.	Million kilowatthours	SOC7PZZ is independent. SOC7PUS = $\Sigma$ SOC7PZZ
SOCCB	Solar energy consumed by the commercial sector.	Billion Btu	SOCCBZZ = SOC5BZZ + SOC7BZZ SOCCBUS = $\Sigma$ SOCCBZZ
SOCCP	Solar thermal and photovoltaic electricity net generation in the commercial sector.	Million kilowatthours	SOCCPZZ = SOC5PZZ + SOC7PZZ SOCCPUS = $\Sigma$ SOCCPZZ
SOEGB	Solar energy consumed for electricity generation by the electric power sector.	Billion Btu	SOEGBZZ = SOEGPZZ * $3.412$ SOEGBUS = $\Sigma$ SOEGBZZ
SOEGP	Solar thermal and photovoltaic electricity net generation in the electric power sector.	Million kilowatthours	SOEGPZZ is independent. SOEGPUS = $\Sigma$ SOEGPZZ
SOGBP	Solar generating units net summer capacity in all sectors.	Thousand kilowatts	SOGBPZZ is independent. SOGBPUS is independent.
SOI5B	Solar energy consumed for electricity generation at utility-scale industrial CHP and electricity-only facilities.	Billion Btu	SOI5BZZ = SOI5PZZ * $3.412$ SOI5BUS = $\Sigma$ SOI5BZZ
SOI5P	Solar thermal and photovoltaic electricity net generation at utility-scale industrial CHP and electricity-only facilities.	Million kilowatthours	SOI5PZZ is independent. SOI5PUS = $\Sigma$ SOI5PZZ
SOI7B	Solar energy consumed for electricity generation at small-scale industrial facilities.	Billion Btu	SOI7BZZ = SOI7PZZ * $3.412$ SOI7BUS = $\Sigma$ SOI7BZZ
SOI7P	Photovoltaic electricity generation at small- scale industrial facilities.	Million kilowatthours	SOI7PZZ is independent. SOI7PUS = $\Sigma$ SOI7PZZ
SOICB	Solar energy consumed by the industrial sector.	Billion Btu	SOICBZZ = SOI5BZZ + SOI7BZZ SOICBUS = $\Sigma$ SOICBZZ
SOICP	Solar thermal and photovoltaic electricity net generation in the industrial sector.	Million kilowatthours	SOICPZZ = SOI5PZZ + SOI7PZZ SOICPUS = $\Sigma$ SOICPZZ
SOR7B	Solar energy consumed for electricity generation by small-scale applications in the residential sector.	Billion Btu	SOR7BZZ = SOR7PZZ * 3.412 SOR7BUS = ΣSOR7BZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
SOR7P	Solar photovoltaic electricity generation by small-scale applications in the residential sector.	Million kilowatthours	SOR7PZZ is independent. SOR7PUS = $\Sigma$ SOR7PZZ
SORCB	Solar energy consumed by the residential sector.	Billion Btu	SORCBZZ = SOR7BZZ + SOT8BZZ SORCBUS = $\Sigma$ SORCBZZ
SOT8B	Solar thermal energy consumed as heat.	Billion Btu	SOT8BZZ = (SOTTPZZ / SOTTPUS) * SOT8BUS SOT8BUS is independent.
SOTCB	Solar energy total consumption.	Billion Btu	SOTCBZZ = SOCCBZZ + SOEGBZZ + SOICBZZ + SORCBZZ SOTCBUS = $\Sigma$ SOTCBZZ
SOTGP	Solar thermal and photovoltaic electricity total net generation.	Million kilowatthours	SOTGPZZ = SOCCPZZ + SOEGPZZ + SOICPZZ + SOR7PZZ SOTGPUS = $\Sigma$ SOTGPZZ
SOTTP	Rolling 20-year accumulation of shipments of solar thermal energy collectors.	Square feet	SOTTPZZ is independent. SOTTPUS = $\Sigma$ SOTTPZZ
SOTXB	Solar energy total end-use consumption.	Billion Btu	SOTXBZZ = SOCCBZZ + SOICBZZ + SORCBZZ SOTXBUS = $\Sigma$ SOTXBZZ
SPCAS	Solar photovoltaic generating units capacity factor.	Percent	SPCASZZ is independent. SPCASUS is independent.
TEACB	Total energy consumption in the transportation sector.	Billion Btu	Before 1993: TEACBZZ = CLACBZZ + EMACBZZ + ESACBZZ + LOACBZZ + NGACBZZ + PAACBZZ TEACBUS = CLACBUS + EMACBUS + ESACBUS + LOACBUS + NGACBUS + PAACBUS 1993 through 2008: TEACBZZ = BDACBZZ + CLACBZZ + ESACBZZ + LOACBZZ + NGACBZZ + PAACBZZ TEACBUS = BDACBUS + CLACBUS + ESACBUS + LOACBUS + NGACBUS + PAACBUS 2009 forward: TEACBZZ = CLACBZZ + ESACBZZ + LOACBZZ + NGACBZZ + PAACBZZ TEACBUS = CLACBUS + ESACBUS + LOACBUS + NGACBUS + PAACBUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
TEAPB	Total energy consumption per capita in the transportation sector.	Million Btu	TEAPBZZ = TEACBZZ / TPOPPZZ TEAPBUS = TEACBUS / TPOPPUS
TECCB	Total energy consumption in the commercial sector.	Billion Btu	Before 1993:  TECCBZZ = CLCCBZZ + EMCCBZZ + ESCCBZZ + GECCBZZ + HYCCBZZ + LOCCBZZ + NGCCBZZ + PACCBZZ + SOCCBZZ + WWCCBZZ - SFCCBZZ TECCBUS = CLCCBUS + EMCCBUS + ESCCBUS + GECCBUS + HYCCBUS + LOCCBUS + NGCCBUS + PACCBUS + SOCCBUS + WWCCBUS - SFCCBUS 1993 forward: TECCBZZ = CLCCBZZ + ESCCBZZ + GECCBZZ + HYCCBZZ + LOCCBZZ + NGCCBZZ + PACCBZZ + SOCCBZZ + WWCCBZZ + WYCCBZZ - SFCCBZZ TECCBUS = CLCCBUS + ESCCBUS + GECCBUS + HYCCBUS + LOCCBUS + NGCCBUS + PACCBUS + SOCCBUS + WWCCBUS + WYCCBUS - SFCCBUS
TECPB	Total energy consumption per capita in the commercial sector.	Million Btu	TECPBZZ = TECCBZZ / TPOPPZZ TECPBUS = TECCBUS / TPOPPUS
TEEIB	Total energy consumption in the electric power sector plus net imports of electricity into the United States.	Billion Btu	TEEIBZZ = CLEIBZZ + ELNIBZZ + GEEGBZZ + HYEGBZZ + NGEIBZZ + NUEGBZZ + PAEIBZZ + SOEGBZZ + WWEIBZZ + WYEGBZZ - SFEIBZZ TEEIBUS = ΣΤΕΕΙΒΖΖ
TEESB	Total energy used to generate the electricity consumed in a state.	Billion Btu	TEESBZZ = ELISBZZ + TEEIBZZ TEESBUS = TEEIBUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
TEICB	Total energy consumption in the industrial sector.	Billion Btu	Before 1993:  TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + EMICBZZ + EMLCBZZ + GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ + ESICBZZ + LOICBZZ - SFINBZZ  TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + EMICBUS + EMLCBUS + GEICBUS + HYICBUS + SOICBUS + WWICBUS + ESICBUS + LOICBUS - SFINBUS 1993 through 2000: TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + EMLCBZZ + GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ + WYICBZZ + ESICBZZ + LOICBZZ - SFINBZZ  TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + EMLCBUS + GEICBUS + HYICBUS + SOICBUS + WWICBUS + WYICBUS + ESICBUS + LOICBUS - SFINBUS 2001 forward: TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + BFLCBZZ + GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ + WYICBZZ + ESICBZZ + LOICBZZ - SFINBZZ  TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + BFLCBUS + GEICBUS + HYICBUS + SOICBUS + WWICBUS + WYICBUS + ESICBUS +
TEIPB	Total energy consumption per capita in the industrial sector.	Million Btu	TEIPBZZ = TEICBZZ / TPOPPZZ TEIPBUS = TEICBUS / TPOPPUS
TERCB	Total energy consumption in the residential sector.	Billion Btu	TERCBZZ = CLRCBZZ + ESRCBZZ + GERCBZZ + LORCBZZ + NGRCBZZ + PARCBZZ + SORCBZZ + WDRCBZZ - SFRCBZZ  TERCBUS = CLRCBUS + ESRCBUS + GERCBUS + LORCBUS + NGRCBUS + PARCBUS + SORCBUS + WDRCBUS - SFRCBUS
TERPB	Total energy consumption per capita in the residential sector.	Million Btu	TERPBZZ = TERCBZZ / TPOPPZZ TERPBUS = TERCBUS / TPOPPUS

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
TETCB	Total energy consumption.	Billion Btu	TETCBZZ = ELISBZZ + ELNIBZZ + FFTCBZZ + NUETBZZ + RETCBZZ TETCBUS = ELNIBUS + FFTCBUS + NUETBUS + RETCBUS
TETGR	Total energy consumption per dollar of real gross domestic product (GDP).	Thousand Btu per chained (2017) dollars	TETGRZZ = TETCBZZ / GDPRXZZ TETGRUS = TETCBUS / GDPRXUS
TETPB	Total energy consumption per capita.	Million Btu	TETPBZZ = TETCBZZ / TPOPPZZ TETPBUS = TETCBUS / TPOPPUS
TETXB	Total end-use sector energy consumption.	Billion Btu	TETXB = TEACB + TECCB + TEICB + TERCB
TNACB	End-use energy consumption in the transportation sector.	Billion Btu	TNACBZZ = TEACBZZ - LOACBZZ TNACBUS = TEACBUS - LOACBUS
TNCCB	End-use energy consumption in the commercial sector.	Billion Btu	TNCCBZZ = TECCBZZ - LOCCBZZ TNCCBUS = TECCBUS - LOCCBUS
TNICB	End-use energy consumption in the industrial sector.	Billion Btu	TNICBZZ = TEICBZZ - LOICBZZ TNICBUS = TEICBUS - LOICBUS
TNRCB	End-use energy consumption in the residential sector.	Billion Btu	TNRCBZZ = TERCBZZ - LORCBZZ TNRCBUS = TERCBUS - LORCBUS
TNTCB	Total end-use energy consumption.	Billion Btu	TNTCB = TNRCB + TNCCB + TNICB + TNACB
TPOPP	Resident population including Armed Forces.	Thousand population	TPOPPZZ is independent. TPOPPUS is independent.
UOICB	Unfinished oils consumed by the industrial sector.	Billion Btu	UOICBZZ = UOTCBZZ UOICBUS = UOTCBUS
UOICP	Unfinished oils consumed by the industrial sector.	Thousand barrels	UOICPZZ = UOTCPZZ UOICPUS = UOTCPUS
UOTCB	Unfinished oils total consumption.	Billion Btu	UOTCBZZ = UOTCPZZ * 5.825 UOTCBUS = ΣUOTCBZZ
UOTCP	Unfinished oils total consumption.	Thousand barrels	UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS UOTCPUS is independent.
USICB	Unfractionated streams consumed by the industrial sector (through 1983).	Billion Btu	USICBZZ = USTCBZZ USICBUS = USTCBUS
USICP	Unfractionated streams consumed by the industrial sector (through 1983).	Thousand barrels	USICPZZ = USTCPZZ USICPUS = USTCPUS

## **Table A1. Consumption variables (cont.)**

MSN	Description	Unit	Formula
USTCB	Unfractionated streams total consumption (through 1983).	Billion Btu	USTCBZZ = USTCPZZ * $5.418$ USTCBUS = $\Sigma$ USTCBZZ
USTCP	Unfractionated streams total consumption (through 1983).	Thousand barrels	USTCPZZ = USTCPUS * FNCASZZ USTCPUS is independent.
WDC3B	Wood consumed by CHP and electricity-only facilities in the commercial sector.	Billion Btu	WDC3BZZ is independent. WDC3BUS = $\Sigma$ WDC3BZZ
WDC4B	Wood energy consumed for other uses in the commercial sector.	Billion Btu	WDC4BZZ = (WDRCPZZ / WDRCPUS) * WDC4BUS WDC4BUS = WDCCBUS - WDC3BUS
WDCCB	Wood energy consumed by the commercial sector.	Billion Btu	WDCCBZZ = WDC3BZZ + WDC4BZZ WDCCBUS is independent.
WDEIB	Wood consumed by the electric power sector.	Billion Btu	WDEIBZZ is independent. WDEIBUS = $\Sigma$ WDEIBZZ
WDGBP	Wood generating units net summer capacity in all sectors.	Thousand kilowatts	WDGBPZZ is independent. WDGBPUS is independent.
WDI3B	Wood consumed by CHP and electricity-only facilities in the industrial sector.	Billion Btu	WDI3BZZ is independent. WDI3BUS = $\Sigma$ WDI3BZZ
WDI4B	Wood energy consumed for other uses in the industrial sector.	Billion Btu	WDI4BZZ is independent. WDI4BUS = $\Sigma$ WDI4BZZ
WDICB	Wood energy consumed by the industrial sector.	Billion Btu	WDICBZZ = WDI3BZZ + WDI4BZZ WDICBUS = $\Sigma$ WDICBZZ
WDRCB	Wood energy consumed by the residential sector.	Billion Btu	Before 2015: WDRCBZZ = WDRCPZZ * 20 WDRCBUS = ΣWDRCBZZ 2015 forward: WDRCBZZ is independent. WDRCBUS = ΣWDRCBZZ
WDRCP	Wood energy consumed by the residential sector (through 2014).	Thousand cords	WDRCPZZ is independent. WDRCPUS = $\Sigma$ WDRCPZZ
WDTCB	Wood energy total consumption.	Billion Btu	WDTCBZZ = WDCCBZZ + WDEIBZZ + WDICBZZ + WDRCBZZ WDTCBUS = ΣWDTCBZZ
WSC3B	Waste consumed by CHP and electricity-only facilities in the commercial sector.	Billion Btu	WSC3BZZ is independent. WSC3BUS = ΣWSC3BZZ

**Table A1. Consumption variables (cont.)** 

MSN	Description	Unit	Formula
WSCCB	Waste energy consumed by the commercial sector.	Billion Btu	WSCCBZZ = WSC3BZZ WSCCBUS = $\Sigma$ WSCCBZZ
WSEIB	Waste consumed by the electric power sector.	Billion Btu	WSEIBZZ is independent. WSEIBUS = ΣWSEIBZZ
WSGBP	Waste generating units net summer capacity in all sectors.	Thousand kilowatts	WSGBPZZ is independent. WSGBPUS is independent.
WSI3B	Waste consumed by CHP and electricity-only facilities in the industrial sector.	Billion Btu	WSI3BZZ is independent. WSI3BUS = ΣWSI3BZZ
WSI4B	Waste energy consumed for other uses in the industrial sector.	Billion Btu	WSI4BZZ is independent. WSI4BUS = ΣWSI4BZZ
WSICB	Waste energy consumed by the industrial sector.	Billion Btu	WSICBZZ = WSI3BZZ + WSI4BZZ WSICBUS = ΣWSICBZZ
WSTCB	Waste energy total consumption.	Billion Btu	WSTCBZZ = WSCCBZZ + WSEIBZZ + WSICBZZ WSTCBUS = $\Sigma$ WSTCBZZ
WWCCB	Wood and waste consumed in the commercial sector.	Billion Btu	WWCCBZZ = WDCCBZZ + WSCCBZZ WWCCBUS = $\Sigma$ WWCCBZZ
WWEIB	Wood and waste consumed by the electric power sector.	Billion Btu	WWEIBZZ = WDEIBZZ + WSEIBZZ WWEIBUS = $\Sigma$ WWEIBZZ
WWI4B	Wood and waste consumed in manufacturing processes in the industrial sector.	Billion Btu	WWI4BZZ = WDI4BZZ + WSI4BZZ WWI4BUS = $\Sigma$ WWI4BZZ
WWICB	Wood and waste consumed in the industrial sector.	Billion Btu	WWICBZZ = WDICBZZ + WSICBZZ WWICBUS = $\Sigma$ WWICBZZ
WWTCB	Wood and waste total consumption.	Billion Btu	WWTCBZZ = WDTCBZZ + WSTCBZZ WWTCBUS = $\Sigma$ WWTCBZZ
WWTXB	Wood and waste total end-use consumption.	Billion Btu	WWTXBZZ = WDCCBZZ + WDICBZZ + WDRCBZZ + WSCCBZZ + WSICBZZ WWTXBUS = $\Sigma$ WWTXBZZ
WXICB	Waxes consumed by the industrial sector.	Billion Btu	WXICBZZ = WXTCBZZ WXICBUS = WXTCBUS
WXICP	Waxes consumed by the industrial sector.	Thousand barrels	WXICPZZ = WXTCPZZ WXICPUS = WXTCPUS
WXTCB	Waxes total consumption.	Billion Btu	WXTCBZZ = WXTCPZZ * $5.537$ WXTCBUS = $\Sigma$ WXTCBZZ

MSN	Description	Unit	Formula
WXTCP	Waxes total consumption.	Thousand barrels	WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS WXTCPUS is independent.
WYC5B	Wind energy consumed at commercial CHP and electricity-only facilities.	Billion Btu	WYC5BZZ = WYC5PZZ * $3.412$ WYC5BUS = $\Sigma$ WYC5BZZ
WYC5P	Wind electricity net generation at utility-scale commercial CHP and electricity-only facilities.	Million kilowatthours	WYC5PZZ is independent. WYC5PUS = $\Sigma$ WYC5PZZ
WYCAS	Wind generating units capacity factor.	Percent	WYCASZZ is independent. WYCASUS is independent.
WYCCB	Wind energy consumed by the commercial sector.	Billion Btu	WYCCBZZ = WYC5BZZ WYCCBUS = $\Sigma$ WYCCBZZ
WYCCP	Wind electricity net generation in the commercial sector.	Million kilowatthours	WYCCPZZ = WYC5PZZ WYCCPUS = $\Sigma$ WYCCPZZ
WYEGB	Wind energy consumed for electricity generation by the electric power sector.	Billion Btu	WYEGBZZ = WYEGPZZ * $3.412$ WYEGBUS = $\Sigma$ WYEGBZZ
WYEGP	Wind electricity net generation in the electric power sector.	Million kilowatthours	WYEGPZZ is independent. WYEGPUS = $\Sigma$ WYEGPZZ
WYGBP	Wind generating units net summer capacity in all sectors.	Thousand kilowatts	WYGBPZZ is independent. WYGBPUS is independent.
WYI5B	Wind energy consumed for electricity generation at industrial CHP and electricity-only facilities.	Billion Btu	WYI5BZZ = WYI5PZZ * $3.412$ WYI5BUS = $\Sigma$ WYI5BZZ
WYI5P	Wind electricity net generation at utility-scale industrial CHP and electricity-only facilities.	Million kilowatthours	WYI5PZZ is independent. WYI5PUS = $\Sigma$ WYI5PZZ
WYICB	Wind energy consumed by the industrial sector.	Billion Btu	WYICBZZ = WYI5BZZ WYICBUS = ΣWYICBZZ
WYICP	Wind electricity net generation in the industrial sector.	Million kilowatthours	WYICPZZ = WYI5PZZ WYICPUS = ΣWYICPZZ
WYTCB	Wind energy total consumption.	Billion Btu	WYTCBZZ = WYCCBZZ + WYEGBZZ + WYICBZZ WYTCBUS = $\Sigma$ WYTCBZZ
WYTCP	Wind electricity total net generation.	Million kilowatthours	WYTCPZZ = WYCCPZZ + WYEGPZZ + WYICPZZ WYTCPUS = $\Sigma$ WYTCPZZ
WYTXB	Wind energy total end-use consumption.	Billion Btu	WYTXBZZ = WYCCBZZ + WYICBZZ WYTXBUS = $\Sigma$ WYTXBZZ

# **Table A1. Consumption variables (cont.)**

MSN	Description	Unit	Formula
WYTXP	Wind energy total end-use net generation.	Million kilowatthours	WYTXPZZ = WYCCPZZ + WYICPZZ WYTXPUS = $\Sigma$ WYTXPZZ
ZWCDP	Cooling degree days (CDD).	Cooling degree days	ZWCDPZZ is independent. ZWCDPUS is independent.
ZWHDP	Heating degree days (HDD).	Heating degree days	ZWHDPZZ is independent. ZWHDPUS is independent.

# Appendix B. Thermal conversion factors

Table B1. Approximate heat content of petroleum and heat rates for electricity, selected years, 1960-2022

			Petroleum consumption			Electricity n	et generation	
	Distillate fuel oil, all sectors (DFTCKUS)	Hydrocarbon gas liquids, industrial sector (HLICKUS)	Hydrocarbon gas liquids, all sectors (HLTCKUS)	Motor gasoline, all sectors (MGTCKUS)	Total petroleum products, all sectors <sup>a</sup> (PATCKUS)	Fossil-fueled steam-electric plants <sup>b</sup> (FFETKUS)	Nuclear steam-electric plants (NUETKUS)	Heat content of electricity <sup>c</sup>
Year			Million Btu per barrel				Btu per kilowatthour	
1960	5.825	3.783	3.810	F 0F0	F F40	10,760	11.000	3,412
1965	5.825 5.825	3.786	3.810	5.253 5.253	5.542 5.517	10,760	11,629 11,804	3,412
1970	5.825	3.648	3.731	5.253	5.499	10,494	10,977	3,412
1975	5.825	3.575	3.671	5.253	5.489	10,494	11 012	3,412
1976	5.825	3.533	3.645	5.253	5.499	10,373	11,013 11,047	3,412
1977	5.825	3.464	3.598	5.253	5.512	10,435	10,769	3,412
1978	5.825	3.447	3.584	5.253	5.512	10,433	10,769	3,412
1979	5.825	3.596	3.644	5.253	5.487	10,353	10,879	3,412
1980	5.825	3.629	3.669	5.253	5.472	10,388	10,908	3,412
1981	5.825	3.583	3.632	5.253	5.440	10,453	11,000	3,412
1981	5.825	3.532	3.588	5.253	5.406	10,453	11,030 11,073	3,412
1983	5.825	3.447	3.535	5.253	5.396	10,454	10,905	3,412
1984		3.527	3.580		5.385	10,440		3,412
1984	5.825 5.825			5.253 5.253	5.377		10,843 10,622	
1985	5.825	3.527 3.582	3.584 3.631	5.253	5.410	10,447 10,446	10,579	3,412 3,412
1987	5.825	3.622	3.663	5.253	5.395	10,446	10,379	3,412
1988	5.825	3.598	3.643	5.253	5.402	10,324	10,602	3,412
1988	5.825	3.637	3.643	5.253	5.403	10,324	10,583	3,412
				5.253	5.403		10,583	3,412
1990	5.825	3.578	3.630			10,402	10,582	
1991	5.825	3.575	3.626	5.253	5.375	10,436	10,484	3,412
1992	5.825	3.599	3.643	5.253	5.369	10,342	10,471	3,412
1993	5.825	3.577	3.628	5.217	5.354	10,309	10,504 10,452	3,412
1994	5.820	3.616	3.657	5.214	5.345	10,316	10,452	3,412
1995	5.820	3.598	3.641	5.204	5.327	10,312	10,507	3,412
1996	5.820	3.578	3.629	5.211	5.324	10,340	10,503	3,412
1997	5.820	3.577	3.627	5.205	5.322	10,213	10,494	3,412
1998	5.819	3.568	3.619	5.203	5.335	10,197	10,491	3,412
1999	5.819	3.574	3.628	5.202	5.313	10,226	10,450	3,412
2000	5.819	3.549	3.610	5.201	5.311	10,201	10,429	3,412
2001	5.819	3.537	3.604	5.201	5.331	10,333	10,443	3,412
2002	5.819	3.519	3.588	5.199	5.309	10,173	10,442	3,412
2003	5.819	3.539	3.610	5.197	5.326	10,125	10,422	3,412
2004	5.818	3.523	3.591	5.196	5.330	10,016	10,428	3,412
2005	5.818	3.517	3.589	5.192	5.342	9,999	10,436 10,435	3,412
2006	5.803	3.479	3.551	5.185	5.323	9,919	10,435	3,412
2007	5.784	3.468	3.544	5.142	5.293	9,884	10,489	3,412
2008	5.780	3.446	3.549	5.106	5.268	9,854	10,452	3,412
2009	5.777	3.375	3.487	5.090	5.218	9,760	10,459	3,412
2010	5.775	3.394	3.489	5.067	5.204	9,756	10,452	3,412
2011	5.770	3.316	3.423	5.063	5.193	9,716	10,464 10,479	3,412
2012	5.767	3.360	3.440	5.062	5.176	9,516	10,479	3,412
2013	5.763	3.388	3.468	5.060	5.157	9,541	10,449	3,412
2014	5.763	3.344	3.439	5.059	5.161	9,509	10,459	3,412
2015	5.762	3.384	3.461	5.057	5.154	9,314	10,458	3,412
2016	5.757	3.341	3.424	5.055	5.161	9,228	10,459	3,412
2017	5.757	3.314	3.400	5.053	5.153	9,208	10,459	3,412
2018	5.759	3.291	3.381	5.054	5.123	9,098	10,455	3,412
2019	5.759	3.310	3.401	5.052	5.111	8,899	10,442	3,412
2020	5.756	3.259	3.349	5.052	5.054	8,767	_ 10,446	3,412
2021	5.764	3.287	3.369	5.050	5.067	8,844	R 10.429	3,412
2022	5.765	3.119	3.229	5.049	5.058	8,813	10,429	3,412

a This factor is not actually applied in SEDS but is displayed here for information.
 b This factor is the average for electricity generated at U.S. fossil-fueled steam-electric plants. Through 2000, it is used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and biomass waste consumed by the electric power sector are available from surveys.

<sup>&</sup>lt;sup>c</sup> The value of 3,412 Btu per kilowatthour is a constant used as the thermal conversion factor for electricity net

generation from noncombustible renewable energy (hydro, geothermal, solar, and wind), electricity sales to ultimate customers, and electricity imports.

Where shown, R = Revised data, NA = Not available. Sources: See source listing at the end of this appendix.

Table B2. Approximate heat content of natural gas consumed by the electric power sector, selected years, 1960-2005 (thousand Btu per cubic foot)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	1.035	1.034	1.031	1.033	1.133	1.099	1.029	1.023	1.027	1.040	1.025	1.027	1.025	1.027
Alaska		1.010	1.005	1.006	1.006	1.006	1.027	1.003	1.003	1.004	1.009	1.004	1.007	1.006
Arizona		1.076	1.059	1.071	1.057	1.059	1.031	1.021	1.016	1.023	1.018	1.008	1.020	1.024
rkansas		1.001	1.004	1.011	1.026	1.055	1.018	1.019	1.020	1.037	1.016	1.032	1.030	1.029
alifornia		1.073	1.054	1.063	1.052	1.051	1.032	1.028	1.020	1.027	1.022	1.023	1.029	1.029
olorado		0.912	0.974	0.996	0.981	0.989	1.041	1.063	1.056	1.047	1.017	1.034	1.041	1.03
onnecticut	1.035	1.022	1.016	1.005		1.031	1.031	1.021	1.012	1.014	1.021	1.008	1.015	1.011
elaware	1.035	1.043	1.020	1.073	1.042	1.038	1.070	1.032	1.017	1.037	1.017	1.043	1.032	1.037
istrict of Columbia														
orida	1.035	1.037	1.041	1.009	1.015	1.011	1.013	1.014	1.036	1.042	1.025	1.034	1.031	1.034
eorgia	1.035	1.040	1.031	1.029	1.035	1.024	1.024	1.027	1.016	1.019	1.022	1.024	1.030	1.046
awaii														
laho				1.053	1.037	1.049			1.040	1.029	0.979	1.002	1.028	1.021
linois		1.029	1.025	1.029	1.024	1.027	1.023	1.017	1.020	1.022	1.012	1.015	1.025	1.020
diana		0.999	1.006	1.000	1.004	1.005	1.003	1.020	1.017	1.020	1.026	1.021	1.015	1.018
wa		1.010	1.009	1.008	1.008	1.021	1.014	1.009	1.009	1.014	1.007	1.011	0.999	1.003
ansas		0.995	0.998	0.991	0.960	0.968	0.998	0.989	1.011	1.010	1.001	1.003	1.005	1.009
entucky		1.028	1.017	1.017	1.024	1.024	1.023	1.020	1.020	1.025	1.024	1.023	1.026	1.032
ouisiana		1.042	1.029	1.059	1.041	1.047	1.045	1.042	1.034	1.041	1.027	1.032	1.029	1.030
aine							1.010	1.009	1.021	1.034	1.038	1.037	1.039	1.052
aryland		1.025	1.022	0.943	1.023	1.025	1.034	1.035	1.041	1.033	1.043	1.038	1.040	1.049
assachusetts		1.013	1.012	1.002	1.000	1.039	1.047	1.026	1.035	1.037	1.017	1.028	1.032	1.033
ichigan		1.014	1.015	0.834	0.737	0.460	0.813	0.855	0.934	0.990	1.008	1.013	1.017	1.01
innesota		0.998	1.002	0.984	0.994	1.002	1.015	1.011	1.018	1.022	1.005	1.004	1.006	1.00
ississippi		1.029	1.025	1.030	1.017	1.039	1.034	1.034	1.028	1.029	1.025	1.033	1.032	1.032
issouri		1.020	1.007	0.977	0.979	0.992	1.018	1.008	1.014	1.099	1.009	1.016	1.022	1.021
ontana		1.001	1.032	1.149	1.049	1.204	1.159	1.038	1.018	1.015	1.004	0.961	1.018	1.013
ebraska		0.991	1.008	0.982	0.950	0.957	0.959	1.007	1.015	1.022	0.976	0.997	0.987	0.998
evada		1.062	1.082	1.067	1.071	1.065	1.031	1.033	1.024	1.026	1.020	1.024	1.030	1.037
ew Hampshire		1.045	1.000	1.000	1.024	1.046	1.000	1.018	1.069	1.074	1.047	1.046	1.046	1.044
ew Jersey		1.045	1.026	1.028	1.034	1.046	1.036	1.032	1.032	1.032	1.031	1.035	1.038	1.035
ew Mexico	1.035	1.108 1.026	1.083 1.021	1.033 1.025	1.029	1.013 1.035	1.034 1.032	1.019 1.022	0.992 1.018	0.982 1.019	1.002 1.019	1.000	1.021 1.022	1.005 1.021
ew York	1.035 1.035	1.026	1.021	1.025	1.036 1.034	1.033	1.032	1.022	1.016	1.019	1.019	1.025 1.007	1.022	1.021
orth Carolina	1.035	1.000	1.024	1.054		1.053	1.027	1.026	1.017	1.024	1.010		1.050	1.014
orth Dakotahio		1.033	1.023	0.864	1.054 1.004	1.034	1.036	1.000	1.019	1.028	1.024	1.025 1.034	1.029	1.029
klahoma		1.026	1.023	1.038	1.048	1.044	1.042	1.034	1.019	1.031	1.024	1.029	1.031	1.023
regon		1.070	1.032	1.037	0.998		1.042	1.011	1.029	1.021	1.023	1.029	1.020	1.030
ennsylvania		1.038	1.033	1.000	1.020	1.000	0.935	1.030	1.034	1.033	1.028	1.039	1.037	1.026
hode Island		1.042	1.033	1.042	1.020	1.034	1.032	1.021	1.034	1.032	1.028	1.022	1.021	1.030
outh Carolina		1.042	1.021	1.028	1.030	1.029	1.024	1.023	1.038	1.037	1.028	1.022	1.034	1.02
outh Dakota		0.997	1.004	1.000	0.988	1.010	1.024	1.017	1.020	1.027	0.980	0.960	0.983	1.009
ennessee		1.046	1.022		1.016		1.027	1.019	1.033	1.040	1.023	1.032	1.026	1.023
exas		1.037	1.027	1.019	1.037	1.036	1.035	1.025	1.021	1.030	1.019	1.021	1.023	1.02
ah		0.925	0.938	0.941	0.955	1.075	1.027	1.049	1.044	1.046	1.005	1.004	1.000	1.04
ermont				1.000	1.000	1.000	1.027	1.001	1.012	1.012	1.018	1.019	1.020	0.89
rginia		1.031	1.026	1.098	1.104	1.040	1.030	1.032	1.037	1.030	1.024	1.028	1.027	1.03
ashington					1.030	1.033	1.029	1.028	1.025	1.028	1.026	1.021	1.024	1.02
est Virginia		1.071	1.029	0.575	1.000	1.000	1.000	1.028	1.006	1.026	1.036	1.057	1.060	1.03
isconsin		1.018	1.019	1.016	1.007	1.000	1.016	1.015	1.012	1.016	0.975	0.986	0.998	1.01
/yoming		0.926	1.023	0.843	0.847	1.048	1.035	1.043	1.027	1.031	0.923	0.935	0.946	0.92
.S. Average	1.035	1.038	1.029	1.023	1.033	1.037	1.027	1.021	1.021	1.029	1.021	1.024	1.027	1.02

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B3. Approximate heat content of natural gas consumed by the electric power sector, 2006-2022 (thousand Btu per cubic foot)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alabama	1.029	1.033	1.028	1.025	1.020	1.019	1.016	1.018	1.026	1.032	1.031	1.031	1.029	1.028	1.031	1.031	1.032
Alaska	1.007	1.007	1.006	1.006	1.006	1.015	1.013	1.002	1.001	1.001	1.000	1.002	0.999	1.002	1.003	1.000	1.002
Arizona	1.021	1.022	1.027	1.022	1.016	1.016	1.021	1.024	1.029	1.038	1.035	1.039	1.041	1.032	1.028	1.032	1.031
Arkansas	1.028	1.026	1.032	1.025	1.020	1.020	1.021	1.025	1.033	1.032	1.027	1.025	1.021	1.024	1.025	1.028	1.029
California	1.032	1.031	1.029	1.027	1.026	1.022	1.025	1.029	1.033	1.035	1.034	1.034	1.032	1.034	1.031	1.033	1.035
Colorado	1.039	1.038	1.037	1.034	1.028	1.036	1.044	1.050	1.054	1.077	1.083	1.084	1.100	1.117	1.098	1.088	1.078
Connecticut	1.010	1.012	1.013	1.012	1.017	1.024	1.031	1.029	1.026	1.027	1.026	1.027	1.028	1.030	1.031	1.029	1.031
Delaware	1.037	1.036	1.034	1.024	1.021	1.021	1.026	1.052	1.057	1.047	1.040	1.035	1.036	1.036	1.034	1.033	1.034
District of Columbia						1.020					1.000						
Florida	1.028	1.028	1.029	1.024	1.018	1.015	1.014	1.016	1.021	1.024	1.022	1.023	1.022	1.023	1.026	1.025	1.025
Georgia	1.040	1.040	1.035	1.035	1.023	1.017	1.015	1.017	1.024	1.030	1.032	1.032	1.029	1.026	1.030	1.029	1.029
Hawaii																	
Idaho	1.027	1.025	1.016	1.014	1.017	1.011	1.012	1.011	1.014	1.013	1.014	1.020	1.023	1.019	1.018	1.015	1.018
Illinois	1.022	1.023	1.019	1.019	1.015	1.018	1.012	1.014	1.014	1.018	1.021	1.023	1.027	1.035	1.026	1.038	1.037
Indiana	1.015	1.014	1.014	1.013	1.008	1.011	1.011	1.019	1.030	1.044	1.045	1.054	1.051	1.053	1.056	1.057	1.056
lowa	1.004	1.008	1.010	1.008	1.010	1.011	1.022	1.024	1.047	1.058	1.057	1.062	1.079	1.091	1.092	1.083	1.072
Kansas	1.015	1.020	1.016	1.014	1.017	1.018	1.020	1.019	1.020	1.043	1.037	1.033	1.033	1.019	1.014	1.018	1.021
Kentucky	1.028	1.027	1.025	1.024	1.022	1.018	1.022	1.030	1.032	1.025	1.033	1.046	1.045	1.050	1.047	1.043	1.041
Louisiana	1.037	1.033	1.032	1.030	1.023	1.022	1.018	1.021	1.031	1.029	1.031	1.028	1.027	1.030	1.027	1.027	1.023
Maine	1.056	1.058	1.058	1.049	1.049	1.053	1.036	1.022	1.023	1.020	1.021	1.017	1.051	1.042	1.036	1.041	1.042
Maryland	1.047	1.045	1.032	1.048	1.034	1.021	1.034	1.057	1.048	1.052	1.051	1.046	1.037	1.041	1.039	1.041	1.039
Massachusetts	1.032	1.037	1.034	1.034	1.037	1.039	1.036	1.036	1.030	1.028	1.030	1.030	1.032	1.030	1.031	1.030	1.030
Michigan	1.011	1.015	1.015	1.016	1.014	1.015	1.017	1.021	1.022	1.027	1.036	1.035	1.046	1.056	1.056	1.053	1.054
Minnesota	1.007	1.008	1.013	1.011	1.010	1.009	1.019	1.026	1.041	1.052	1.049	1.052	1.070	1.085	1.088	1.076	1.071
Mississippi	1.032	1.031	1.024	1.016	1.009	1.005	1.010	1.017	1.028	1.032	1.033	1.030	1.026	1.030	1.030	1.030	1.027
Missouri	1.025	1.023	1.018	1.018	1.017	1.022	1.027	1.028	1.027	1.031	1.028	1.030	1.032	1.034	1.027	1.027	1.025
Montana	1.011	1.045	1.021	1.019	1.019	1.016	1.025	1.022	1.020	1.023	1.034	1.035	1.042	1.037	1.038	1.041	1.044
Nebraska	1.005	1.016	1.006	0.998	1.003	1.009	1.022	1.026	1.036	1.061	1.066	1.065	1.060	1.075	1.068	1.064	1.059
Nevada	1.029	1.030	1.042	1.032	1.031	1.024	1.026	1.034	1.034	1.043	1.041	1.039	1.037	1.044	1.038	1.040	1.042
New Hampshire	1.043	1.055	1.049	1.036	1.040	1.041	1.032	1.030	1.031	1.030	1.028	1.029	1.030	1.032	1.031	1.032	1.032
New Jersey	1.035	1.035	1.032	1.029	1.026	1.026	1.031	1.036	1.036	1.041	1.037	1.035	1.035	1.037	1.035	1.035	1.034
New Mexico New York	1.008 1.019	1.018 1.021	1.017 1.020	1.028 1.020	1.022 1.019	1.022 1.022	1.027 1.029	1.029 1.030	1.033 1.029	1.037 1.031	1.050 1.030	1.044 1.031	1.038 1.030	1.030 1.031	1.025 1.032	1.030 1.032	1.029 1.032
North Carolina	1.019	1.021	1.020	1.020	1.019	1.022	1.029	1.007	1.029	1.035	1.030	1.031	1.030	1.031	1.032	1.032	1.032
North Dakota	1.080	1.013	1.077	1.007	1.178	1.107	1.127	1.112	1.109	1.033	1.035	1.030	1.029	1.063	1.033	1.054	1.032
Ohio	1.031	1.032	1.034	1.033	1.029	1.028	1.025	1.035	1.041	1.060	1.059	1.059	1.057	1.061	1.062	1.062	1.058
Oklahoma	1.030	1.029	1.033	1.033	1.023	1.026	1.023	1.037	1.041	1.048	1.050	1.033	1.037	1.034	1.031	1.002	1.033
Oregon	1.025	1.033	1.021	1.022	1.024	1.018	1.021	1.026	1.030	1.043	1.044	1.051	1.053	1.053	1.050	1.052	1.059
Pennsylvania	1.023	1.030	1.034	1.029	1.027	1.028	1.033	1.043	1.042	1.042	1.038	1.035	1.036	1.036	1.036	1.035	1.035
Rhode Island	1.017	1.026	1.020	1.022	1.013	1.018	1.031	1.033	1.027	1.028	1.027	1.028	1.028	1.029	1.029	1.029	1.028
South Carolina	1.049	1.038	1.036	1.038	1.031	1.032	1.027	1.023	1.025	1.030	1.028	1.030	1.026	1.027	1.031	1.031	1.030
South Dakota	1.005	1.010	1.006	0.994	1.007	1.001	1.025	1.030	1.040	1.056	1.060	1.061	1.079	1.087	1.096	1.081	1.075
Tennessee	1.028	1.026	1.028	1.029	1.020	1.005	1.010	1.019	1.020	1.006	1.006	1.003	1.000	1.000	1.000	1.000	1.000
Texas	1.026	1.023	1.023	1.020	1.020	1.020	1.022	1.023	1.026	1.032	1.030	1.030	1.028	1.023	1.020	1.022	1.019
Utah	1.050	1.041	1.049	1.035	1.038	1.032	1.034	1.032	1.028	1.036	1.033	1.036	1.033	1.042	1.039	1.043	1.043
Vermont	1.016	1.018	1.000	1.005	1.007	1.008	1.020	1.015	1.016	1.037	1.020	1.038	1.030	1.036	1.039	1.040	1.043
Virginia	1.029	1.030	1.040	1.038	1.032	1.028	1.033	1.035	1.040	1.056	1.055	1.051	1.048	1.047	1.043	1.043	1.043
Washington	1.026	1.024	1.030	1.030	1.030	1.028	1.021	1.022	1.043	1.068	1.076	1.080	1.088	1.088	1.086	1.085	1.085
West Virginia	1.046	1.040	1.043	1.050	1.047	1.036	1.039	1.042	1.041	1.068	1.072	1.075	1.075	1.067	1.054	1.071	1.070
Wisconsin	1.012	1.017	1.014	1.015	1.010	1.012	1.016	1.018	1.022	1.025	1.018	1.017	1.018	1.020	1.033	1.036	1.035
Wyoming	0.991	0.977	0.976	0.987	0.990	0.983	0.977	0.966	1.004	1.041	1.047	1.049	1.050	1.054	1.047	1.054	1.054
U.S. Average	1.028	1.027	1.027	1.025	1.022	1.021	1.022	1.025	1.029	1.035	1.034	1.034	1.033	1.034	1.034	1.034	1.033

Table B4. Approximate heat content of natural gas consumed by all sectors except electric power, selected years, 1960-2005 (thousand Btu per cubic foot)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	1.035	1.034	1.031	1.029	1.033	1.038	1.029	1.029	1.044	1.032	1.029	1.030	1.025	1.03
laska		1.010	1.005	1.005	1.002	1.006	0.946	1.006	1.027	1.011	1.004	1.004	1.004	1.00
rizona		1.076	1.059	1.050	1.046	1.046	1.032	1.038	1.010	1.006	1.017	1.013	1.017	1.02
rkansas		1.001	1.004	0.995	0.994	1.017	1.008	1.084	1.019	1.013	1.024	1.031	1.009	1.0
alifornia		1.073	1.054	1.056	1.044	1.038	1.032	1.011	0.956	1.015	1.019	1.020	1.020	1.0
olorado		0.912	0.974	0.896	0.995	0.999	1.003	1.014	0.998	1.005	1.007	1.010	1.006	1.0
onnecticut		1.022	1.016	1.005	1.022	1.030	1.033	1.030	1.028	1.023	1.024	1.026	1.024	1.0
elaware		1.043	1.020	1.015	1.033	1.022	1.009	1.036	1.041	1.033	1.037	1.038	1.036	1.0
istrict of Columbia		1.024	1.016	1.012	1.003	1.015	1.008	1.006	1.027	1.026	1.024	1.027	1.027	1.0
orida		1.037	1.041	1.078	1.070	1.109	1.084	1.070	1.108	1.065	1.036	1.042	1.036	1.0
eorgia		1.040	1.031	1.027	1.032	1.028	1.027	1.026	1.018	1.035	1.026	1.029	1.029	1.0
awaii					0.963	1.082	1.070	1.048	1.047	1.036	1.060	1.047	1.048	1.0
aho		1.065	1.061	1.055	1.053	1.049	1.028	1.030	1.025	1.018	1.030	1.031	1.041	1.0
inois		1.029	1.025	1.026	1.022	1.040	1.022	1.020	1.022	1.020	1.013	1.015	1.014	1.0
diana		0.999	1.006	0.990	0.989	1.008	1.018	1.012	1.025	1.024	1.007	1.091	1.009	1.0
wa		1.010	1.009	1.008	1.003	1.011	1.007	1.005	1.005	1.004	1.003	1.003	1.003	1.0
ansas		0.995	0.998	0.982	0.994	1.000	0.999	1.003	1.008	1.005	1.009	1.012	1.013	1.0
entucky		1.028	1.017	1.008	1.009	1.030	1.040	1.096	1.040	1.037	1.037	1.037	1.035	1.0
ouisiana		1.042	1.029	1.032	1.037	1.038	1.041	1.033	1.064	1.024	1.032	1.032	1.033	1.0
laine			1.012	1.024	1.024	1.035	1.005	1.016	1.153	1.177	1.042	1.046	1.042	1.0
laryland	1.035	1.025	1.022	1.013	1.020	1.034	1.027	1.025	1.033	1.037	1.036	1.038	1.037	1.0
assachusetts		1.013	1.012	1.004	1.016	1.024	1.035	1.026	1.044	1.045	1.035	1.028	1.028	1.0
ichigan		1.014	1.015	1.024	1.020	1.023	1.044	1.040	1.036	1.031	1.021	1.030	1.025	1.0
innesota		0.998	1.002	1.002	0.997	1.004	1.004	1.013	1.015	1.012	1.007	1.008	1.007	1.0
ississippi		1.029	1.025	1.022	1.034	1.025	1.033	1.021	1.043	1.022	1.036	1.036	1.029	1.0
issouri		1.020	1.007	1.008	1.016	1.017	1.011	1.007	1.015	1.006	1.012	1.014	1.020	1.0
ontana		1.001	1.032	1.019	1.009	0.999	1.027	1.030	1.024	1.022	1.021	1.023	1.026	1.0
ebraska		0.991	1.008	0.997	0.980	0.982	0.984	0.979	1.005	1.017	1.008	1.007	1.010	1.0
evada		1.062	1.082	1.067	1.052	1.061	1.031	1.033	1.030	1.023	1.033	1.035	1.032	1.0
ew Hampshire		1.012	1.010	1.010	1.020	1.027	1.014	1.010	1.058	1.062	1.050	1.040	1.043	1.0
ew Tampshire ew Jersey		1.045	1.026	1.031	1.033	1.022	1.014	1.035	1.036	1.038	1.039	1.039	1.043	1.0
ew Mexico		1.108	1.020	1.076	1.033	1.088	1.056	1.020	0.968	0.973	0.972	1.023	1.039	1.0
ew York		1.026	1.003	1.076	1.023	1.027	1.029	1.031	1.032	1.033	1.025	1.028	1.020	1.0
orth Carolina		1.020	1.021	1.013	1.023	1.034	1.032	1.033	1.032	1.042	1.023	1.042	1.027	1.0
		1.000	1.024	1.001	1.052	1.034	1.032	1.050	1.031	1.042	1.003	1.042	1.036	1.0
orth Dakota		1.000	1.031	1.024		1.062	1.032		1.035	1.029	1.003		1.045	1.0
Phio					1.016			1.038				1.036		
klahoma		1.026	1.032	0.996	1.002	1.020	1.021	1.015	1.008	1.027	1.030	1.030	1.031	1.0
regon		1.070	1.045	1.039	1.046	1.030	1.023	1.045	1.031	1.029	1.025	1.007	1.009	1.0
ennsylvania		1.038 1.042	1.033	1.025	1.022	1.034 1.033	1.039	1.035	1.035	1.055 1.029	1.038	1.040	1.039	1.0
hode Island			1.021	1.014	1.021		1.027	1.029	1.047		1.030	1.026	1.027	1.0
outh Carolina	1.035	1.042	1.028	1.023	1.033	1.028	1.028	1.027	1.029	1.038	1.033	1.037	1.035	
outh Dakota		0.997	1.004	1.000	0.998	1.010	1.016	1.014	1.003	0.995	1.000	1.003	1.003	1.0
ennessee		1.046	1.022	1.031	1.016	1.034	1.035	1.031	1.037	1.037	1.032	1.033	1.033	1.0
exas		1.037	1.027	1.030	1.031	1.039	1.042	1.042	1.033	1.024	1.033	1.029	1.031	1.0
ah		0.925	0.938	0.950	1.092	1.075	1.088	1.064	1.051	1.053	1.060	1.067	1.056	1.0
ermont			1.006	1.009	0.989	0.992	0.982	0.996	1.012	1.012	1.004	1.006	1.004	1.0
rginia	1.035	1.031	1.026	1.019	1.015	1.039	1.043	1.031	1.035	1.038	1.036	1.037	1.031	1.0
ashington	1.035	1.075	1.055	1.042	1.052	1.040	1.030	1.042	1.042	1.035	1.030	1.026	1.028	1.0
est Virginia		1.071	1.029	1.038	1.032	1.067	1.071	1.061	1.068	1.068	1.062	1.066	1.058	1.0
lisconsin		1.018	1.019	1.020	1.008	1.010	1.006	1.011	1.010	1.009	1.009	1.009	1.008	1.0
/yoming	1.035	0.926	1.023	0.935	1.061	1.051	1.099	1.063	1.046	1.056	1.044	1.046	1.045	1.0
S. Average	1.035	1.032	1.025	1.022	1.024	1.032	1.031	1.030	1.026	1.026	1.025	1.029	1.026	1.0

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B5. Approximate heat content of natural gas consumed by all sectors except electric power, 2006-2022 (thousand Btu per cubic foot)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alabama	1.027	1.026	1.023	1.027	1.016	1.016	1.016	1.016	1.021	1.028	1.026	1.028	1.027	1.028	1.030	1.031	1.030
Alaska	1.005	1.006	1.006	1.005	1.005	1.013	1.012	1.001	1.001	1.001	1.001	0.988	0.973	0.983	0.984	R 0.981	0.983
Arizona	1.019	1.026	1.026	1.018	1.017	1.013	1.021	1.026	1.032	1.044	1.042	1.046	1.040	1.032	1.027	1.035	1.032
Arkansas	1.031	1.009	1.009	1.012	1.007	1.015	1.010	1.019	1.011	1.013	1.012	1.015	1.014	1.014	1.013	1.014	1.015
California	1.023	1.029	1.028	1.027	1.022	1.019	1.020	1.026	1.028	1.037	1.035	1.036	1.034	1.034	1.034	1.034	1.035
Colorado	1.030	1.028	1.015	1.015	1.017	1.031	1.038	1.034	1.045	1.056	1.057	1.060	1.070	1.079	1.069	R 1.056	1.046
Connecticut	1.026	1.024	1.020	1.023	1.025	1.028	1.031	1.020	1.028	1.027	1.028	1.029	1.030	1.030	1.029	1.029	1.029
Delaware	1.037	1.038	1.033	1.032	1.025	1.029	1.028	1.047	1.055	1.053	1.052	1.048	1.044	1.043	R 1.042	R 1.040	1.033
District of Columbia	1.025	1.027	1.028	1.035	1.014	1.016	1.029	1.030	1.043	1.044	1.044	1.039	1.036	1.035	1.033	1.032	1.034
Florida	1.032	1.036	1.032	1.031	1.024	1.015	1.019	1.018	1.030	1.025	1.027	1.033	1.028	1.023	1.027	1.030	1.023
Georgia	1.030	1.029	1.023	1.023	1.022	1.018	1.015	1.015	1.017	1.023	1.028	1.028	1.027	1.027	1.027	1.027	1.029
Hawaii	1.047	1.037	1.043	1.040	1.040	1.048	1.046	1.006	0.959	0.982	0.981	0.975	0.962	0.952	0.952	0.918	0.917
ldaho	1.047	1.024	1.024	1.023	1.022	1.018	1.016	1.025	1.018	1.036	1.045	1.046	1.041	1.033	1.027	1.020	1.026
Illinois	1.016	1.014	1.014	1.013	1.008	1.011	1.011	1.016	1.023	1.030	1.033	1.030	1.029	1.033	1.039	1.033	1.044
Indiana	1.017	1.023	1.013	1.015	1.012	1.012	1.012	1.014	1.018	1.023	1.036	1.040	1.046	1.052	1.052	1.056	1.051
lowa	1.013	1.010	1.010	1.007	1.006	1.009	1.014	1.029	1.040	1.053	1.056	1.055	1.059	1.063	1.066	1.068	1.066
Kansas	1.019	1.018	1.036	1.020	1.019	1.020	1.022	1.018	1.024	1.035	1.034	1.034	1.039	1.043	1.035	1.035	1.034
Kentucky	1.029	1.027	1.035	1.037	1.031	1.028	1.031	1.025	1.026	1.021	1.029	1.046	1.051	1.049	1.050	1.050	1.052
Louisiana	1.038	1.034	1.036	1.029	1.024	1.018	1.014	1.017	1.026	1.024	1.022	1.021	1.021	1.020	1.020	1.019	1.018
Maine	1.054	1.071	1.067	1.043	1.039	1.042	1.029	1.031	1.033	1.031	1.030	1.036	1.037	1.037	1.040	1.041	1.044
Maryland	1.037	1.037	1.035	1.036	1.026	1.028	1.038	1.043	1.054	1.056	1.051	1.047	1.044	1.045	1.041	1.038	1.039
Massachusetts	1.010	1.016	1.013	1.031	1.034	1.029	1.034	1.033	1.024	1.029	1.030	1.030	1.031	1.031	1.030	1.030	1.030
Michigan	1.018	1.022	1.024	1.022	1.016	1.014	1.017	1.021	1.019	1.033	1.043	1.046	1.047	1.057	1.061	1.059	1.058
Minnesota	1.017	1.020	1.024	1.030	1.010	1.010	1.019	1.023	1.032	1.038	1.035	1.031	1.046	1.050	1.051	1.054	1.052
Mississippi	1.024	1.029	1.027	1.022	1.020	1.017	1.016	1.013	1.028	1.026	1.027	1.035	1.026	1.028	1.027	1.027	1.032
Missouri	1.020	1.019	1.006	1.006	1.005	1.008	1.008	1.014	1.013	1.009	1.023	1.006	1.022	1.021	1.022	1.021	1.021
Montana	1.017	1.017	1.016	1.011	1.012	1.016	1.025	1.034	1.025	1.033	1.034	1.041	1.043	1.050	1.073	1.058	1.052
Nebraska	1.012	1.018	1.011	1.012	1.004	1.011	1.019	1.036	1.042	1.057	1.059	1.061	1.060	1.070	1.067	1.063	1.057
Nevada	1.037	1.036	1.033	1.030	1.037	1.024	1.036	1.035	1.033	1.040	1.041	1.040	1.036	1.041	1.037	1.036	1.043
New Hampshire	1.019	1.025	1.020	1.034	1.032	1.037	1.032	1.030	1.031	1.030	1.030	1.031	1.032	1.032	1.033	1.032	1.036
New Jersey	1.036	1.035	1.033	1.029	1.026	1.026	1.028	1.048	1.045	1.048	1.044	1.041	1.040	1.041	1.041	1.040	1.040
New Mexico	1.021	1.026	1.028	1.028	1.021	1.022	1.023	1.030	1.034	1.038	1.044	1.041	1.035	1.031	1.030	1.032	1.032
New York	1.022	1.024	1.022	1.022	1.023	1.027	1.032	1.035	1.033	1.033	1.032	1.033	1.033	1.032	1.034	1.032	1.032
North Carolina	1.035	1.033	1.030	1.026	1.018	1.014	1.014	1.014	1.025	1.035	1.035	1.036	1.029	1.031	1.033	1.034	1.030
North Dakota	1.044	1.046	1.042	1.055	1.055	1.073	1.065	1.069	1.086	1.087	1.088	1.083	1.081	1.103	R 1.071	1.070	1.059
Ohio	1.039	1.037	1.040	1.041	1.034	1.031	1.034	1.037	1.060	1.070	1.075	1.073	1.067	1.067	1.071	1.074	1.071
Oklahoma	1.033	1.029	1.035	1.033	1.031	1.029	1.032	1.035	1.038	1.046	1.048	1.043	1.033	1.032	1.031	1.028	1.034
Oregon	1.036	1.033	1.025	1.026	1.008	1.022	1.022	1.009	1.028	1.053	1.071	1.070	1.068	1.053	1.056	1.058	1.072
Pennsylvania	1.039	1.039	1.039	1.040	1.037	1.040	1.044	1.050	1.051	1.048	1.043	1.043	1.039	1.039	1.040	1.039	1.039
Rhode Island	1.017	1.027	1.024	1.024	1.023	1.024	1.030	1.031	1.029	1.028	1.031	1.031	1.030	1.030	1.030	1.029	1.032
South Carolina	1.038	1.036	1.033	1.031	1.023	1.021	1.020	1.018	1.023	1.030	1.032	1.032	1.026	1.027	1.031	1.031	1.031
South Dakota	1.003 1.038	1.002 1.038	1.003	1.002 1.028	1.005 1.023	1.005 1.015	1.018	1.031	1.041 1.028	1.054 1.036	1.056 1.039	1.055 1.040	1.067 1.042	1.084 1.042	1.076	1.080 1.041	1.076 1.041
Tennessee			1.037				1.015	1.019							1.043		
Texas	1.026	1.026	1.027	1.025	1.033	1.028	1.029	1.025	1.034	1.035	1.030	1.028	1.028	1.026	1.023	1.022	1.019
Utah	1.057	1.056	1.062	1.047	1.047	1.039	1.045	1.050	1.045	1.047	1.045 1.024	1.043	1.042 1.034	1.047	1.043	1.047	1.046 1.042
Vermont	1.001 1.035	1.001 1.037	1.005 1.037	1.005 1.035	1.007 1.026	1.008 1.026	1.012 1.035	1.015 1.037	1.017 1.050	1.025 1.048	1.024	1.030 1.055	1.034	1.036 1.057	1.041 1.059	1.040 1.062	1.042
Virginia			1.037	1.035	1.026	1.026	1.035		1.050		1.050	1.055	1.058		1.059	1.062	
Washington	1.030 1.119	1.025		1.030				1.033	1.044	1.064 1.099	1.079			1.085	1.085	R 1.086	1.089 1.087
West Virginia	1.011	1.075 1.014	1.074 1.014		1.076 1.010	1.084 1.014	1.081 1.020	1.077	1.092	1.099	1.099	1.084 1.040	1.092 1.048	1.085 1.050	1.090	1.049	1.087
Wisconsin		1.014		1.014	1.010	1.014	1.020	1.027 1.042	1.037	1.047	1.046	1.040	1.048	1.050	1.049	1.049	1.050
Wyoming	1.041	1.037	1.031	1.031	1.031	1.034	1.034	1.042	1.040	1.000	1.074	1.000	1.002	1.0/4	1.075		1.008
J.S. Average	1.027	1.027	1.027	1.025	1.023	1.022	1.024	1.027	1.033	1.038	1.038	1.038	1.038	1.039	1.038	R 1.038	1.037

Table B6. Approximate heat content of natural gas total consumption, selected years, 1960-2005 (thousand Btu per cubic foot)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	1.035	1.034	1.031	1.029	1.034	1.038	1.029	1.029	1.042	1.034	1.028	1.029	1.025	1.029
laska		1.010	1.005	1.005	1.003	1.006	0.954	1.006	1.025	1.010	1.004	1.004	1.004	1.004
rizona		1.076	1.059	1.052	1.049	1.050	1.032	1.035	1.013	1.015	1.018	1.010	1.019	1.024
rkansas		1.001	1.004	0.997	1.001	1.019	1.009	1.076	1.019	1.016	1.023	1.031	1.013	1.014
alifornia		1.073	1.054	1.057	1.046	1.043	1.032	1.016	0.979	1.020	1.020	1.021	1.023	1.025
olorado	1.035	0.912	0.974	0.913	0.993	0.999	1.005	1.018	1.008	1.013	1.009	1.014	1.013	1.029
onnecticut		1.022	1.016	1.005	1.022	1.030	1.033	1.028	1.025	1.021	1.023	1.021	1.021	1.020
		1.022	1.020	1.020	1.035	1.025	1.026	1.028	1.023	1.034	1.023	1.039	1.035	1.020
elaware		1.043	1.016	1.012	1.003	1.015	1.020	1.006	1.037	1.026	1.024	1.027	1.033	1.052
istrict of Columbia										1.049				1.032
orida		1.037	1.041	1.043	1.041	1.053	1.043	1.033	1.060		1.028	1.036	1.032	
eorgia		1.040	1.031	1.027	1.032	1.028	1.027	1.026	1.018	1.033	1.025	1.029	1.029	1.037
awaii			0.962	0.947	0.963	1.082	1.070	1.048	1.047	1.036	1.060	1.047	1.048	1.037
laho		1.065	1.061	1.055	1.053	1.049	1.028	1.030	1.025	1.019	1.028	1.027	1.039	1.048
linois		1.029	1.025	1.026	1.022	1.040	1.022	1.020	1.022	1.020	1.013	1.015	1.014	1.015
ıdiana		0.999	1.006	0.990	0.989	1.008	1.018	1.012	1.025	1.024	1.008	1.087	1.009	1.018
wa		1.010	1.009	1.008	1.003	1.011	1.007	1.005	1.005	1.004	1.003	1.003	1.003	1.006
ansas		0.995	0.998	0.984	0.987	0.998	0.999	1.002	1.008	1.005	1.008	1.012	1.013	1.014
entucky		1.028	1.017	1.008	1.009	1.030	1.040	1.096	1.040	1.037	1.036	1.037	1.035	1.029
ouisiana		1.042	1.029	1.037	1.038	1.040	1.042	1.035	1.058	1.027	1.031	1.032	1.032	1.041
laine			1.012	1.024	1.024	1.035	1.005	1.016	1.073	1.057	1.039	1.038	1.040	1.051
laryland		1.025	1.022	1.013	1.020	1.034	1.028	1.026	1.034	1.037	1.037	1.038	1.037	1.048
assachusetts		1.013	1.012	1.004	1.016	1.027	1.038	1.026	1.042	1.043	1.029	1.028	1.030	1.022
ichigan	1.035	1.014	1.015	1.012	1.011	1.015	1.022	1.017	1.022	1.025	1.019	1.028	1.024	1.015
innesota	1.035	0.998	1.002	1.001	0.997	1.004	1.004	1.013	1.015	1.012	1.007	1.008	1.007	1.012
ississippi	1.035	1.029	1.025	1.023	1.028	1.028	1.033	1.026	1.038	1.025	1.031	1.035	1.030	1.030
issouri		1.020	1.007	1.006	1.014	1.017	1.011	1.007	1.015	1.017	1.012	1.014	1.020	1.020
lontana		1.001	1.032	1.021	1.012	1.001	1.028	1.030	1.024	1.022	1.021	1.023	1.026	1.040
ebraska	1.035	0.991	1.008	0.994	0.978	0.982	0.983	0.980	1.005	1.017	1.007	1.007	1.009	1.009
evada	1.035	1.062	1.082	1.067	1.061	1.062	1.031	1.033	1.026	1.025	1.025	1.028	1.031	1.039
ew Hampshire		1.012	1.010	1.010	1.020	1.027	1.014	1.011	1.058	1.062	1.050	1.043	1.045	1.036
ew Jersey		1.045	1.026	1.031	1.033	1.026	1.026	1.034	1.035	1.037	1.037	1.038	1.039	1.039
ew Mexico		1.108	1.083	1.064	1.043	1.074	1.054	1.020	0.972	0.975	0.977	1.019	1.025	1.021
lew York		1.026	1.021	1.015	1.025	1.029	1.030	1.028	1.028	1.029	1.023	1.027	1.026	1.025
orth Carolina		1.033	1.024	1.018	1.012	1.034	1.032	1.033	1.030	1.041	1.033	1.040	1.033	1.034
orth Dakota		1.000	1.031	1.001	1.052	1.062	1.032	1.050	1.035	1.029	1.003	1.009	1.021	1.036
Phio		1.033	1.023	1.023	1.016	1.044	1.040	1.038	1.042	1.042	1.038	1.036	1.045	1.043
klahoma		1.026	1.032	1.015	1.023	1.028	1.027	1.020	1.015	1.028	1.028	1.030	1.031	1.030
regon		1.070	1.045	1.039	1.046	1.030	1.023	1.040	1.027	1.026	1.023	1.012	1.013	1.030
ennsylvania		1.038	1.043	1.025	1.022	1.034	1.023	1.040	1.027	1.054	1.023	1.040	1.039	1.030
hode Island		1.036	1.033	1.025	1.022	1.034	1.037	1.035	1.033	1.034	1.023	1.040	1.039	1.040
outh Carolina	1.035	1.042	1.021	1.014	1.033	1.033	1.028	1.026	1.036	1.038	1.023	1.024	1.024	1.021
		0.997	1.028	1.024	0.998		1.028			0.999	0.999		1.002	1.037
outh Dakota						1.010		1.014	1.005			1.001		
ennessee		1.046	1.022	1.031	1.016	1.034	1.035	1.031	1.037	1.037	1.032	1.033	1.033	1.035
exas		1.037	1.027	1.026	1.033	1.038	1.040	1.037	1.029	1.026	1.028	1.026	1.028	1.028
ah		0.925	0.938	0.950	1.086	1.075	1.088	1.063	1.051	1.052	1.055	1.061	1.053	1.053
ermont			1.006	1.008	0.990	0.992	0.987	0.996	1.012	1.012	1.004	1.006	1.004	1.004
rginia		1.031	1.026	1.019	1.016	1.039	1.042	1.031	1.035	1.037	1.034	1.036	1.030	1.040
ashington		1.075	1.055	1.042	1.052	1.040	1.030	1.040	1.038	1.033	1.029	1.025	1.027	1.028
lest Virginia		1.071	1.029	1.037	1.032	1.067	1.071	1.061	1.068	1.067	1.062	1.066	1.058	1.067
/isconsin		1.018	1.019	1.020	1.008	1.010	1.006	1.011	1.010	1.009	1.007	1.008	1.007	1.013
lyoming	1.035	0.926	1.023	0.934	1.060	1.051	1.099	1.063	1.046	1.055	1.040	1.044	1.045	1.042
S. Average	1.035	1.033	1.026	1.022	1.025	1.033	1.030	1.028	1.025	1.027	1.024	1.028	1.026	1.02

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B7. Approximate heat content of natural gas total consumption, 2006-2022 (thousand Btu per cubic foot)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alabama	1.028	1.029	1.025	1.026	1.018	1.018	1.016	1.017	1.024	1.030	1.029	1.030	1.028	1.028	1.031	1.031	1.031
Alaska	1.005	1.006	1.006	1.005	1.005	1.013	1.012	1.001	1.001	1.001	1.001	0.989	0.975	0.984	0.985	R 0.982	0.984
Arizona	1.020	1.023	1.027	1.021	1.016	1.015	1.021	1.025	1.030	1.040	1.037	1.041	1.041	1.032	1.028	1.033	1.031
Arkansas	1.030	1.014	1.015	1.016	1.012	1.017	1.015	1.021	1.017	1.020	1.019	1.019	1.017	1.018	1.018	1.020	1.022
California	1.026	1.030	1.028	1.027	1.023	1.020	1.022	1.027	1.030	1.036	1.035	1.035	1.033	1.034	1.033	1.034	1.035
Colorado	1.032	1.030	1.020	1.019	1.019	1.032	1.039	1.037	1.047	1.060	1.063	1.065	1.078	1.089	1.077	1.064	1.054
Connecticut	1.019	1.019	1.018	1.019	1.022	1.026	1.031	1.024	1.027	1.027	1.027	1.028	1.029	1.030	1.030	1.029	1.030
Delaware	1.037	1.037	1.033	1.030	1.023	1.025	1.027	1.049	1.056	1.050	1.046	1.042	1.041	1.041	1.039	R 1.038	1.033
District of Columbia	1.025	1.027	1.028	1.035	1.014	1.016	1.029	1.030	1.043	1.044	1.044	1.039	1.036	1.035	1.033	1.032	1.034
Florida	1.029	1.029	1.029	1.025	1.019	1.015	1.015	1.016	1.022	1.024	1.023	1.024	1.023	1.023	1.026	1.026	1.025
Georgia	1.032	1.032	1.026	1.027	1.022	1.018	1.015	1.016	1.020	1.027	1.030	1.030	1.028	1.026	1.029	1.028	1.029
Hawaii	1.047	1.037	1.043	1.040	1.040	1.048	1.046	1.006	0.959	0.982	0.981	0.975	0.962	0.952	0.952	0.918	0.917
ldaho	1.044	1.024	1.023	1.022	1.021	1.017	1.015	1.022	1.017	1.030	1.038	1.041	1.037	1.030	1.025	1.019	1.024
Illinois	1.016	1.015	1.014	1.013	1.008	1.011	1.011	1.016	1.023	1.029	1.031	1.029	1.029	1.033	1.036	1.034	1.043
Indiana	1.017 1.012	1.022 1.010	1.013 1.010	1.015 1.007	1.012 1.006	1.012 1.009	1.012 1.014	1.015 1.029	1.019 1.040	1.027 1.053	1.038 1.056	1.043 1.056	1.047 1.061	1.052 1.066	1.053 1.069	1.056 1.070	1.052
lowa	1.012	1.010	1.010	1.007	1.006	1.009	1.014	1.029	1.040	1.053	1.036	1.034	1.038	1.066	1.069	1.070	1.067 1.033
Kansas Kentucky	1.019	1.018	1.034	1.019	1.019	1.020	1.022	1.016	1.024	1.035	1.034	1.034	1.036	1.041	1.033	1.034	1.033
Louisiana	1.029	1.027	1.035	1.030	1.024	1.027	1.030	1.023	1.027	1.025	1.024	1.040	1.049	1.022	1.043	1.020	1.048
Maine	1.055	1.064	1.062	1.046	1.024	1.047	1.032	1.028	1.027	1.023	1.024	1.022	1.041	1.038	1.039	1.041	1.043
Maryland	1.038	1.038	1.035	1.037	1.027	1.027	1.037	1.045	1.053	1.055	1.051	1.047	1.042	1.044	1.040	1.039	1.039
Massachusetts	1.020	1.025	1.021	1.032	1.035	1.033	1.035	1.034	1.026	1.029	1.030	1.030	1.031	1.031	1.030	1.030	1.030
Michigan	1.017	1.021	1.023	1.021	1.016	1.014	1.017	1.021	1.019	1.032	1.041	1.043	1.047	1.057	1.059	1.057	1.057
Minnesota	1.016	1.019	1.023	1.029	1.010	1.010	1.019	1.023	1.033	1.040	1.037	1.033	1.049	1.056	1.058	1.058	1.054
Mississippi	1.028	1.030	1.026	1.019	1.014	1.010	1.012	1.015	1.028	1.030	1.031	1.032	1.026	1.029	1.029	1.029	1.029
Missouri	1.021	1.020	1.008	1.007	1.007	1.010	1.012	1.016	1.015	1.012	1.024	1.010	1.024	1.024	1.023	1.022	1.022
Montana	1.017	1.017	1.016	1.011	1.012	1.016	1.025	1.033	1.025	1.032	1.034	1.041	1.043	1.049	1.072	1.057	1.051
Nebraska	1.012	1.018	1.011	1.012	1.004	1.011	1.019	1.036	1.042	1.057	1.059	1.061	1.060	1.070	1.067	1.063	1.057
Nevada	1.032	1.032	1.039	1.031	1.033	1.024	1.029	1.034	1.034	1.042	1.041	1.039	1.037	1.043	1.038	1.039	1.042
New Hampshire	1.035	1.044	1.040	1.035	1.037	1.040	1.032	1.030	1.031	1.030	1.029	1.030	1.031	1.032	1.032	1.032	1.034
New Jersey	1.036	1.035	1.033	1.029	1.026	1.026	1.029	1.044	1.042	1.045	1.041	1.039	1.038	1.039	1.039	1.038	1.038
New Mexico	1.018	1.024	1.025	1.028	1.021	1.022	1.024	1.030	1.034	1.038	1.046	1.042	1.036	1.031	1.028	1.031	1.031
New York	1.021	1.023	1.021	1.021	1.022	1.025	1.031	1.033	1.032	1.032	1.031	1.032	1.032	1.032	1.033	1.032	1.032
North Carolina	1.032 1.044	1.030	1.027	1.023	1.015	1.011	1.011	1.011 1.069	1.021	1.035 1.086	1.035	1.036	1.029 1.080	1.031 1.099	1.033	1.034	1.031
North DakotaOhio	1.044	1.046 1.037	1.042 1.040	1.055 1.041	1.055 1.034	1.073 1.031	1.065 1.032	1.069	1.086 1.057	1.068	1.083 1.071	1.080 1.070	1.064	1.065	1.069 1.068	1.069 1.070	1.058 1.066
Ohio Oklahoma	1.039	1.037	1.040	1.041	1.034	1.031	1.032	1.037	1.037	1.000	1.049	1.070	1.004	1.003	1.000	1.070	1.034
Oregon	1.032	1.023	1.023	1.024	1.032	1.021	1.022	1.016	1.029	1.047	1.059	1.042	1.061	1.053	1.053	1.055	1.066
Pennsylvania	1.038	1.037	1.038	1.037	1.034	1.036	1.040	1.048	1.048	1.046	1.041	1.040	1.038	1.038	1.038	1.037	1.037
Rhode Island	1.017	1.026	1.022	1.023	1.017	1.020	1.031	1.032	1.028	1.028	1.029	1.029	1.029	1.029	1.029	1.029	1.030
South Carolina	1.041	1.037	1.034	1.034	1.026	1.026	1.023	1.020	1.024	1.030	1.030	1.031	1.026	1.027	1.031	1.031	1.030
South Dakota	1.003	1.003	1.003	1.002	1.005	1.005	1.018	1.031	1.041	1.054	1.056	1.055	1.068	1.084	1.078	1.080	1.076
Tennessee	1.038	1.038	1.037	1.028	1.023	1.014	1.014	1.019	1.027	1.029	1.030	1.031	1.031	1.030	1.031	1.031	1.029
Texas	1.026	1.025	1.025	1.023	1.028	1.025	1.026	1.024	1.031	1.034	1.030	1.029	1.028	1.025	1.022	1.022	1.019
Utah	1.056	1.052	1.059	1.044	1.045	1.038	1.043	1.046	1.041	1.044	1.042	1.042	1.040	1.046	1.042	1.046	1.045
Vermont	1.001	1.001	1.005	1.005	1.007	1.008	1.012	1.015	1.017	1.025	1.024	1.030	1.034	1.036	1.041	1.040	1.042
Virginia	1.034	1.035	1.038	1.036	1.028	1.027	1.034	1.036	1.046	1.052	1.053	1.053	1.052	1.051	1.049	1.051	1.049
Washington	1.029	1.025	1.030	1.030	1.032	1.029	1.028	1.030	1.044	1.065	1.078	1.080	1.087	1.086	1.085	1.086	1.088
West Virginia	1.117	1.074	1.073	1.082	1.076	1.083	1.080	1.076	1.090	1.097	1.097	1.083	1.091	1.084	1.087	R 1.086	1.086
Wisconsin	1.011	1.014	1.014	1.014	1.010	1.014	1.019	1.026	1.035	1.042	1.039	1.035	1.041	1.042	1.044	1.045	1.046
Wyoming	1.041	1.036	1.031	1.031	1.031	1.034	1.034	1.042	1.040	1.060	1.074	1.060	1.062	1.074	1.074	1.056	1.058
U.S. Average	1.027	1.027	1.027	1.025	1.023	1.022	1.023	1.026	1.032	1.037	1.037	1.036	1.036	1.037	1.037	1.036	1.036

Table B8. Approximate heat content of coal consumed by the residential and commercial sectors, selected years, 1960-2005 (million Btu per short ton)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	24.910	24.779	23.933	23.520	24.042	24.407	24.629	24.646	25.450	18.845	24.232	24.224	24.224	25.130
Alaska		18.807	18.165	17.683		15.800	15.800	15.800	15.600	15.600	15.600	15.600	15.600	15.600
rizona						19.788	18.698	21.962	21.956	18.819	18.963	18.657	18.780	18.959
rkansas					23.900	22.990	24.834				25.202		25.202	
California		22.892	22.111		23.109	23.555	23.184	23.296	23.790	23.546	25.202	24.578	22.400	22.690
Colorado		22.833	22.053	20.826	21.461	21.217	21.435	22.169	21.706	22.429	22.401	22.500	22.460	22.383
Connecticut		24.402	23.476	22.272	22.719	23.031	25.199	23.804	24.842	25.190	25.202	25.174	25.202	25.202
Delaware		24.316	23.476	22.272	23.143	24.117	24.856	24.696	26.118	25.202				
District of Columbia		24.977	24.124	23.241	24.541	24.888	24.961	25.178	25.300	24.694	24.694	24.694	24.694	24.694
lorida					24.283	24.882	24.861	24.644	25.750	23.495	24.355	24.704		25.202
Georgia		24.613	23.772	23.494	24.321	24.832	25.143	24.980	25.642	25.716	25.716		25.714	24.872
ławaii														
daho		24.701	23.858	22.663	22.292	22.832	22.478	21.717	22.060	22.348	22.074	21.644	18.444	21.283
linois		23.915	23.099	22.523	22.069	22.269	22.452	22.516	21.955	23.096	23.073	22.944	22.887	22.904
ndiana	24.065	23.938	23.121	22.132	21.881	22.259	22.461	22.290	23.519	22.303	22.272	22.389	22.343	22.455
owa		21.210	20.485	18.277	20.223	21.402	23.960	24.361	26.101	23.868	24.179	24.055	23.393	23.535
Cansas		21.674	20.934		21.182	21.146	24.280	23.945	24.156	24.172	24.025	23.546		
Centucky		24.284	23.454	23.178	23.837	24.344	24.450	24.928	26.408	24.901	24.704	24.378	24.093	24.067
ouisiana					21.365			25.078	23.482					
Maine		24.702	23.612	22.519	23.546	24.278	24.937	24.696	25.922	25.198	25.196	25.202	25.202	25.202
Maryland		24.875	23.944	22.938	24.043	24.749	25.067	24.838	25.072	24.922	24.616	24.796	24.700	24.709
lassachusetts		24.493	23.557	22.430	23.417	23.778	25.070	24.834	27.070	25.395	24.648	24.997	24.469	24.969
lichigan		24.628	23.787	23.466	24.353	24.460	24.812	24.662	25.100	24.087	23.595	23.703	24.503	24.357
linnesota		21.856	21.109	19.257	20.829	19.142	17.892	20.258	19.294	24.331	17.382	18.744	20.360	19.429
lississippi					22.993	24.541	24.852							
lissouri	22.942	22.821	22.042	21.404	21.807	22.802	21.936	22.634	22.014	22.981	23.147	23.251	23.195	23.216
Nontana		21.224	20.499	20.389	22.042	17.680	18.781	21.228	16.016	18.223	18.514	18.413	18.118	18.121
lebraska		20.804	20.093	18.406	18.038	21.526	21.374	20.321		22.347	22.394	22.439	22.396	22.370
VebraskaVebraska		25.049	24.211	23.327	22.430	23.562	24.010	23.443	23.108	19.617	18.118	18.118	18.118	18.118
lew Hampshire		24.316	23.476	22.272	22.719	23.031	25.171	24.868	25.922	25.202	25.202	25.202	25.202	25.202
lew Jersey		24.354	23.481	22.263	22.719	23.218	25.171	24.696	25.500	25.202	25.202	25.202	25.202	25.202
New Mexico		22.873	22.091		19.786	19.817	18.698	19.232	25.212	18.819	18.785	19.009	19.246	18.813
lew York		24.360	23.496	22.574	23.337	23.819	24.856	24.958	25.311	24.846	25.094	25.202	24.992	25.010
		24.632	23.490	23.493	24.422	24.859	25.187	25.164	27.000	25.080	24.825	25.202	24.992	25.373
lorth Carolina	24.702	15.469				13.138	13.910			16.003	16.228	16.379	16.982	18.098
Iorth Dakota Dhio		23.732	14.940 22.921	13.757 22.325	13.243 23.207	23.837	24.144	15.535 24.439	14.228 24.013	24.111	24.202	24.149	21.335	23.981
		22.608	21.836	20.673		23.394	24.144	25.894	24.013	24.111	24.202		Z1.333 	24.276
Oklahoma		24.476	23.640	20.073	23.291 22.722	23.394	23.184	23.296	23.309	24.213	24.213	24.215 		24.270
Oregon		24.365	23.542	22.303	23.150	23.724	25.104	24.830	26.386	25.137	25.110	25.124	25.105	25.132
Pennsylvania Rhode Island			23.476	22.467	23.130	23.724	25.116	24.696	25.922	25.202	25.202	25.124	25.202	25.132
		24.316				24.854			25.922	25.202	25.202		25.202	25.202
South Carolina		24.632	23.791	23.493	24.414		24.875	25.503				 17.001		
outh Dakota		19.310	18.650	16.860	18.426	19.369	18.375	19.072	20.868	23.506	17.381	17.381	17.381	17.381
ennessee		24.584	23.745	23.480	23.970	24.389	24.741	25.276	26.045	24.457	24.553	23.831	23.497	24.704
exas		14.873	14.366		15.200	22.511	25.896		16.280	25.623	18.685	19.228	25.683	25.716
tah		25.756	24.877	23.740	23.179	23.562	23.150	23.296	23.210	23.544	23.546	23.547	23.547	23.551
ermont		24.316	23.476	22.272	22.719	24.399	25.199	24.696	25.922	25.202	25.202	25.202	25.202	25.202
'irginia		24.652	23.810	23.462	24.414	24.864	25.087	24.997	26.174	25.042	25.045	24.925	25.004	24.859
Vashington		22.789	22.011	19.968	22.771	23.452	21.737	22.634	25.961	23.488	23.506	23.519	23.510	
Vest Virginia		24.866	24.017	23.709	24.059	24.860	25.017	24.822	25.742	24.765	24.746	24.765	24.712	24.697
Visconsin		21.806	21.061	18.980	24.265	24.568	24.978	25.078	27.659	24.448	24.309	24.717	24.326	18.945
Vyoming	20.625	20.517	19.817	18.572	17.809	17.262	19.935	18.241	20.116	17.746	17.837	17.860	17.879	17.869
J.S. Average	23.943	23.776	22.990	22.120	22.892	22.682	23.021	23.027	23.364	22.706	22.449	22.488	22.314	22.053

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B9. Approximate heat content of coal consumed by the residential and commercial sectors, 2006-2022 (million Btu per short ton)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alabama	24.295	25.195															
Alaska	15.600	15.600	15.280	15.356	15.302	15.184	15.268	15.272	15.278	15.186	15.118	14.995	15.126	15.083	15.029	14.976	15.246
Arizona	18.914	19.703													10.025		
Arkansas	25.202	22.932															
California	23.546																
Colorado	22.324	22.419	24.195	22.928	22.968	22.898	23.679	22.752	23.219	23.104	23.848	23.565			22.906	23.090	23.637
Connecticut	25.202	25.202															
Delaware	25.202	25.202															
District of Columbia		24.694	27.395	28.028	27.658	27.658	27.273	26.598	27.102	26.146	26.520	26.312	26.445	27.096			
Florida	25.202	25.202															
Georgia		24.331	28.000	28.000	28.000	28.000	28.000	28.000	28.000	26.184							
Hawaii																	
Idaho	21.546	23.007	23.491	23.088	23.088	23.131	22.871	23.377	23.161								
Illinois	22.934	22.915	22.227	22.245	22.292	22.211	22.352	22.454	22.356	22.212	22.432	22.685	22.785	22.959	22.665	22.300	22.202
Indiana	22.372	22.352	23.073	23.152	23.132	22.932	22.390	22.544	22.558	22.339	22.717	22.662	22.573	22.737	22.501	22.407	22.294
lowa	23.407	23.408	23.154	23.082	23.070	23.059	23.039	22.872	22.832	22.740	22.894	22.891	23.050	22.703	22.360	22.613	22.166
Kansas	23.546																
Kentucky	23.668	23.698	27.274	27.316	27.393	27.315	27.357	27.090	25.959	26.409	26.410	26.217	27.133	25.981	26.150	26.082	26.464
Louisiana		24.355															
Maine	25.202	25.202															
Maryland	24.733	24.745	26.138	26.569	26.113	26.650	27.000	27.000	27.000	22.069							
Massachusetts	24.773	24.637															
Michigan	24.375	24.469	25.594	26.016	25.863	24.926	23.625	23.526	23.299	24.748	24.540						
Minnesota	17.782	19.324	18.049	17.967	18.077	17.888	18.871	19.508	18.377	17.934	17.962	17.826	18.482	18.218	18.112	18.907	17.733
Mississippi																	
Missouri	23.195	23.080	22.716	22.954	22.924	22.878	22.789	22.916	22.727	22.700	22.666	22.814	22.653	22.751	22.853	22.956	22.888
Montana	18.118	18.118	25.046	24.274	24.730	25.239	25.487	17.129	17.299	21.600	22.385	20.960	22.042	21.180	22.194	20.968	21.378
Nebraska	22.295	22.349															
Nevada	18.118	22.349															
New Hampshire	25.202	25.202															
New Jersey	25.202	25.202															
New Mexico	18.929	18.581															
New York	24.860	24.918	25.253	25.363	25.374	24.600											
North Carolina	25.113	25.318	26.738	26.803	26.520	26.696	26.741	26.657	26.350	26.651	26.400	26.144	25.758	25.759	26.028	25.277	25.636
North Dakota	17.847	15.916	17.123	17.231	17.475	17.103	17.294	17.184	17.230	17.188	17.137	17.343	17.245	17.598	18.041	18.317	18.167
Ohio	24.194	24.122	26.652	26.850	26.677	26.636	26.710	26.614	26.643	26.822	27.014	24.572					
Oklahoma	24.557	24.694															
Oregon	 05 105	 05 100	 05 700	 05.050	 05.710	 05 507		 05 701		 00.070			 05 770	 00.070	 05.670	 05.014	
Pennsylvania	25.125	25.126	25.729	25.958	25.713	25.507	25.065	25.791	26.246	26.273	26.139	26.221	25.779	26.078	25.673	25.214	26.156
Rhode Island	25.202	25.202	07.540	 07.510	 07.000												
South Carolina	24.331	25.202	27.542	27.512	27.020		26.560										
South Dakota	17.381 24.386	17.381 24.540	25.893	24.900 25.660	24.900 25.827	25.400	16.574 25.597	25.283	25.362								
Tennessee	25.202	25.202	25.613 27.483	27.250	27.250	26.846	26.757	26.559	27.044	25.756							
Texas Utah										26.616							
Utah Vermont	23.542 25.202	23.539 25.363															
Virginia	24.745	23.303	26.520	26.007	26.727	26.468	26.388	26.196	26.432	26.444	26.229	25.741	26.445	27.096	26.898	27.998	26.991
Washington	17.381	17.381	20.320	20.007	20.727	20.400	20.300	20.190	20.432	20.444	20.229	23.741	20.443	27.090	20.090	27.990	20.991
West Virginia	24.716	24.704															
Wisconsin	24.716	24.704	26.890	26.865	27.012	26.990	26.771	26.851	26.671	26.782	26.750	26.750	26.750	26.750	26.750		
Wyoming	17.895	17.907	21.850	21.271	19.878	19.415	19.109	17.761	20.397	21.173	20.750	23.075	23.189	22.901	22.491	23.084	23.030
TTY OHING	17.050	17.307	21.000	21.2/1	13.070	10.410	13.103	17.701	20.031	21.170	20.334	20.070	20.103	ZZ.30 I	££. <del>4</del> 31	20.004	20.000
U.S. Average	21.915	22.179	22.941	22.820	22.590	22.105	21.350	21.259	21.442	20.667	20.316	19.608	19.321	19.082	18.258	18.067	18.146

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.

Note: Beginning in 2008, commercial sector only.
Sources: See source listing at the end of this appendix.

Table B10. Approximate heat content of coal consumed by other industrial users, selected years, 1960-2005 (million Btu per short ton)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	25.178	24.960	23.542	22.990	24.106	24.383	24.679	24.848	25.450	25.563	25.611	25.605	25.336	24.568
Naska		19.257	18.140	17.684					15.710	15.600	15.600	15.600	15.600	15.600
rizona		21.424	20.181	19.778	20.373	20.257	20.071	19.962	22.164	21.907	22.345	22.407	21.938	22.163
rkansas		25.204		21.336	21.406	21.310	22.808	23.957	25.154	24.929	24.797	24.305	24.404	25.230
alifornia		25.823	24.325	22.985	22.173	23.299	22.522	23.296	23.790	24.128	23.883	24.164	24.130	23.658
olorado		23.351	21.996	21.392	21.818	21.568	21.105	21.702	21.706	21.768	23.371	23.218	22.776	23.14
onnecticut		25.553	24.071	23.627		24.419	25.199				25.571	25.210		24.69
elaware		25.129	23.743	23.441	24.472	24.720	24.938	25.192	26.151	26.089	25.917	25.689	26.082	26.36
istrict of Columbia		25.655	24.167	23.786	24.357	24.720	24.930	25.192	20.131	20.009	25.917	25.009	20.002	20.30
		25.055	24.107	23.760	22.892	24.778	25.005	25.107	25.750	25.729	25.618	25.503	25.850	25.82
lorida														
ieorgia		25.199	23.737	23.508	24.331	24.818	25.148	25.198	25.642	25.719	25.891	25.861	25.665	25.58
awaii						24.688	24.810	21.500	19.518	18.140	13.214	26.400	23.760	23.87
laho		22.345	21.049	19.935	17.684	17.762	17.858	19.035	22.060	20.562	20.873	20.277	20.349	20.57
inois		23.631	22.267	21.694	22.357	22.799	22.556	22.837	22.552	22.275	22.001	21.637	21.350	21.60
idiana		23.799	22.419	21.824	22.253	22.431	22.712	23.055	23.866	24.728	24.566	24.093	24.364	23.44
wa		23.335	21.983	21.320	21.517	22.611	22.586	20.978	20.980	20.990	20.467	20.790	20.237	20.18
ansas		22.471	21.168	20.480	21.568	21.506	24.224	24.241	24.156	23.384	24.013	24.286	24.855	24.51
entucky		24.497	23.119	22.904	24.059	24.518	24.633	24.847	26.408	26.080	26.732	26.189	26.299	26.09
ouisiana					22.153	24.054	19.979	18.136	24.502	24.796	24.387	24.232	24.621	24.26
laine	25.889	25.626	24.134	23.975	24.439	24.861	24.924	25.102	25.922	25.871	25.855	26.136	25.577	25.27
aryland	25.904	25.676	24.190	23.658	24.485	24.728	25.118	25.324	25.072	26.150	25.736	25.395	25.122	24.44
assachusetts	26.150	25.906	24.402	23.798	24.602	24.850	24.877	25.176	27.070	26.975	27.055	27.054	27.232	27.44
ichigan		24.610	23.187	22.892	24.044	24.741	24.451	24.026	24.912	25.098	25.518	25.637	25.187	25.02
innesota		19.349	18.227	18.917	17.084	20.690	18.563	19.078	19.294	19.465	19.335	18.938	18.999	18.99
ississippi		25.455	23.978	23.213	23.442	23.399	23.254	24.073	23.922	24.178	24.369	24.143	23.326	23.65
lissouri		23.392	22.036	21.430	22.003	22.329	22.988	23.175	23.128	22.979	23.155	23.061	23.001	22.79
ontana		22.626	21.313	20.879	19.035	18.068	18.376	18.100	16.016	16.457	14.694	14.624	14.878	14.69
ebraska		21.781	20.517	19.285	19.194	18.597	19.053	19.359	20.508	19.559	20.501	20.268	20.106	19.89
		26.144	24.783	23.422	23.161	23.562	23.184	22.668		23.380	23.055	23.276	23.025	22.61
evada									23.280	23.360	23.055	23.276	23.025	22.01
ew Hampshire		24.233	22.945	23.364	24.112	24.624	24.939	25.216						
ew Jersey		25.156	23.712	23.377	23.526	24.453	25.236	23.983	25.500	24.800	25.200	25.244	25.233	25.20
ew Mexico		22.834	21.510		21.867	21.625	21.388	22.008	25.212	25.066	24.751	25.195	24.675	24.58
ew York		25.486	24.054	23.635	24.454	24.858	25.108	25.117	26.294	25.536	25.970	26.079	26.150	26.37
orth Carolina		25.222	23.759	23.490	24.419	24.880	24.938	25.269	26.492	26.750	26.397	26.461	26.329	26.21
orth Dakota	14.812	14.681	13.830	13.039	13.120	13.160	13.489	13.353	14.228	14.177	13.984	14.310	14.344	14.27
hio		24.568	23.149	22.676	23.339	24.178	24.304	24.512	24.816	25.040	25.142	25.086	25.230	25.10
klahoma	25.383	25.160		23.439	21.212	21.434	22.802	22.675	19.882	19.973	20.142	20.433	21.175	21.15
regon		22.477	21.173	20.348	17.693	17.868	17.352	19.026			22.269	23.089	21.855	23.53
ennsylvania	25.479	25.249	23.889	23.430	24.110	24.678	24.920	25.135	24.476	24.318	24.116	24.043	23.716	23.08
hode Island		24.316	23.476	22.963	24.099	24.419	25.199							
outh Carolina	25.421	25.194	23.756	23.473	24.399	24.861	25.118	25.193	26.270	26.078	26.334	26.196	25.986	25.82
outh Dakota	19.909	19.734	18.589	18.765	19.220	17.262	17.338	17.258	20.868	16.861	16.855	16.763	16.615	16.63
ennessee		24.833	23.413	23.129	24.145	24.579	25.133	25.135	26.088	25.742	26.037	26.002	25.991	25.90
exas		16.902	17.885	18.825	16.296	15.577	14.790	14.965	16.280	17.000	17.701	17.545	17.100	17.16
ah		25.967	24.461	23.644	22.331	22.274	23.189	23.003	23.210	23.453	23.017	23.158	21.029	23.05
ermont		26.291	24.766	24.056	24.888	24.265	25.079	25.005	25.210	20.400	25.017	25.150		20.00
rginia		25.237	23.777	23.473	24.448	24.900	25.079	25.085	26.386	26.218	25.654	26.316	26.259	26.11
		25.726	24.234	23.546	21.363	21.634	22.707	19.006	22.332	22.658	22.070	23.180	21.867	20.75
ashington														
est Virginia		25.293	23.830	23.522	24.347	24.849	24.888	24.975	25.742	25.532	25.445	25.177	24.563	24.80
/isconsin		24.380	22.966	21.957	22.735	23.323	24.150	24.219	23.698	23.545	23.451	23.185	23.152	23.10
/yoming	20.539	20.357	19.177	18.356	17.955	17.555	22.178	21.941	20.116	19.987	20.148	19.848	19.914	19.75
.S. Average	24.657	24.460	23.064	22.290	22.696	22.249	22.430	22.112	22.476	22.652	22.575	22.511	22.464	22.17

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B11. Approximate heat content of coal consumed by other industrial users, 2006-2022 (million Btu per short ton)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alabama	24.709	24.934	25.218	25.353	25.006	25.388	25.483	25.253	25.370	25.796	25.642	26.466	26.019	25.495	26.296	25.750	25.076
laska	15.600	15.600	15.600	15.600	15.600	15.600	15.268	15.272	15.278	15.186	15.118	14.995	15.126	15.083	15.029	14.976	15.246
rizona	22.048	21.488	20.597	20.257	20.098	19.937	20.835	23.893	23.457	23.148	23.292	23.284	23.308	23.247	23.502	23.241	23.064
rkansas	24.904	24.609	24.636	24.921	25.247	23.894	23.741	23.613	24.090	23.748	24.077	23.692	23.266	23.461	22.842	23.033	22.645
alifornia	24.992	23.728	23.353	23.549	23.401	23.164	23.186	23.090	23.315	23.207	23.099	22.995	23.121	23.348	23.141	23.101	22.732
olorado	22.748	22.947	23.171	22.999	21.910	22.172	22.275	22.159	22.492	22.703	23.029	21.711	21.461	22.854	24.172	24.125	23.637
onnecticut																	
elaware	26.410	26.374	25.788	25.527							22.968						
istrict of Columbia																	
orida	25.410	25.431	25.432	25.780	25.677	25.803	25.451	26.081	25.897	26.017	26.176	25.207	25.151	24.735	24.856	25.236	24.034
eorgia	25.677	25.724	25.257	25.440	25.490	25.209	25.451	25.512	25.880	26.184	25.718	24.995	25.093	25.136	25.079	25.235	24.977
awaii	27.965	24.964	23.356	23.117	23.303	22.325	22.886	22.330	22.378	22.580	22.580						
laho	20.358	20.116	19.827	19.968	20.044	20.099	20.420	21.894	21.196	22.106	22.676	22.908	23.187	23.348	24.592	24.396	24.595
inois	21.657	21.591	21.349	20.916	20.623	20.675	21.376	21.209	21.270	21.078	20.798	20.723	20.615	20.403	20.374	20.982	21.237
diana	23.483	23.723	24.152	23.686	24.007	25.432	25.846	26.270	25.504	25.225	26.366	26.512	26.442	25.836	26.308	26.414	26.166
wa	19.832	20.216	19.793	19.614	19.717	19.855	19.009	18.736	18.968	18.439	18.274	18.505	18.306	18.401	18.215	18.181	17.937
ansas	24.002	23.955	24.705	23.495	23.815	23.971	22.741	23.890	24.371	24.006	22.017	21.816	21.584	22.829	21.683	21.348	20.994
entucky	26.103	25.463	25.915	25.669	25.707	26.111	25.994	25.914	25.840	26.472	26.153	26.510	25.898	26.134	26.106	25.548	25.875
ouisiana	24.094	24.343	24.254	23.563	23.855	16.485	15.555	15.723	15.538	15.554	15.289	15.710	16.166	15.661	15.281	14.978	14.978
aine	25.438	26.226	26.241	26.022	25.489	25.259	25.343	25.259	25.063	24.999	25.238	25.369	25.496	24.636	24.672		
laryland	24.174	24.465	24.303	24.374	23.956	22.772	22.530	21.799	22.170	22.069	21.851	21.858	22.069	21.562	23.011	23.502	22.193
assachusetts	26.267	26.115	26.539	26.451	26.651	26.519	27.104	27.131	27.003	27.002	25.097	24.716	24.581	24.856			
ichigan	24.878	25.233	24.942	24.185	24.369	23.518	23.166	23.497	24.070	24.296	24.540	25.314	25.006	24.900	22.781	23.605	23.825
innesota	18.932	19.049	19.223	19.193	19.100	19.098	18.907	18.939	18.766	18.261	18.571	18.259	18.226	18.520	18.636	18.657	18.612
lississippi	24.160	23.873	23.364	23.504	23.042	23.027	22.987	22.856	22.932	23.130				29.698	29.688	29.561	29.468
lissouri	22.735	22.464	22.508	22.536	22.662	22.448	22.471	22.228	22.154	22.257	22.529	22.581	22.450	22.343	22.486	22.494	22.367
Iontana	14.470	14.787	15.339	14.815	14.955	14.995	17.594	17.129	17.299	17.838	17.883	17.982	18.219	17.883	17.750	18.039	18.163
ebraska	19.428	18.919	18.789	18.547	18.263	18.330	18.232	18.054	18.057	18.028	17.977	17.924	17.864	17.406	17.430	17.421	17.535
evada	22.656	22.868	21.829	22.115	21.856	22.684	23.177	22.698	22.104	22.672	22.579	22.449	23.192	23.371	23.692	23.360	23.032
ew Hampshire																	
lew Jersey	25.064																
lew Mexico	24.569	24.649	24.445	24.661	24.922	24.804	24.445	24.248	24.317	24.657	24.616	24.522	24.461	24.449	24.457	24.528	24.409
ew York	25.928	26.254	26.176	25.990	25.890	25.504	25.765	25.653	25.515	26.059	26.302	26.069	26.048	25.480	25.519	25.413	25.446
lorth Carolina	26.254	26.223	26.125	26.201	26.102	25.890	25.983	27.001	26.616	25.957	26.455	27.291	27.065	26.980	26.932	27.052	26.804
orth Dakota	14.293	14.290	14.377	14.456	14.388	14.386	14.352	14.368	14.465	14.453	14.456	14.462	14.407	14.436	14.444	14.416	14.456
Ohio	25.037	25.195	25.020	24.797	24.976	24.987	24.932	24.922	24.695	24.619	24.419	24.572	24.796	25.471	25.454	25.610	25.208
klahoma	20.513	20.643	20.469	19.145	19.085	18.887	19.041	19.218	19.256	19.149	18.974	18.665	19.735	20.449	23.639	23.988	22.481
regon	24.541	24.536	24.351	24.481	24.183	23.974	23.368	23.211	23.150	23.521		23.299	23.374	22.792	23.796	22.745	22.323
ennsylvania	22.686	22.341	22.142	22.155	22.184	22.468	22.989	23.261	23.331	23.620	23.378	22.312	23.479	24.241	25.170	24.851	24.179
hode Island	 05 740	 05.015	 0E 000	 	 OF 040	 05 470	 05 470		 00.10F	 05.700				 00 F40	 0E 000		 05.010
outh Carolina	25.742	25.915	25.862	25.858	25.842	25.479	25.472	26.343	26.185	25.762	26.038	26.865	26.630	26.549	25.968	26.066	25.818
outh Dakota	16.648	16.916	16.810	16.613	16.520	16.544	16.574	16.529	16.427	17.024	16.377	16.751	16.713	16.822	16.881	16.498	16.030
ennessee	25.925	25.936	26.067	26.160	26.139	25.950	26.054	25.982	26.181	26.191	26.410	26.396	26.056	26.288	26.199	26.017	25.856
exas	17.290	21.648	21.587	20.482	14.524	20.339	20.950	21.565	21.205	21.465	20.514	19.871	20.297	19.658	20.681	23.128	23.229
tah	23.160	22.799	22.717	22.427	23.059	23.035	23.031	22.825	22.660	22.852	22.853	22.923	23.025	22.792	23.183	23.070	23.263
ermont	26.054	26.077	 05 000	25.723	25.733	 05 660	 25.017	 25 701	25.784	26.166	26.173	26.507	26.250	 	 26 140	26.016	25.887
irginia			25.892			25.669	25.917	25.701						26.068	26.140		
ashington	21.288 24.952	23.389	19.961	20.691	19.306	18.797	19.167	19.011	19.155	18.815	18.781	18.772	18.791	18.808	18.891	18.760	18.790
est Virginia		24.970	24.981	25.360	25.216	25.010	25.324	25.145	25.225 22.244	25.639	27.214	27.886	27.614	27.687	27.607	26.098	26.418
/isconsin	22.717 19.828	22.779 19.847	22.794 19.643	22.493 19.614	22.323 19.666	22.171 19.432	22.507 19.647	22.411 19.777	19.567	22.284 19.610	21.312 19.878	21.583 19.551	21.758 19.789	21.299 19.767	21.383 19.758	21.579 20.257	21.884 19.999
/yoming	19.020	19.047	19.043	19.014	19.000	19.432	19.047	19.777	19.307	19.010	19.070	19.551	19.769	19.707	19.756	20.201	19.999
I.S. Average	22.035	22.371	22.275	21.867	21.722	21.686	21.518	21.611	21.489	21.260	21.086	20.856	20.698	20.698	20.486	20.605	20.339

Table B12. Approximate heat content of coal consumed by the electric power sector, selected years, 1960-2005 (million Btu per short ton)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	. 24.126	23.704	23.314	23.164	23.912	24.111	24.299	23.718	22.062	21.892	22.452	21.793	21.475	21.613
laska		17.858	17.080	17.400	15.800	15.800	15.800	15.800	16.571	16.534	16.135	16.264	16.041	15.277
rizona		20.850	21.238	21.090	21.243	20.986	20.951	20.578	20.426	20.305	20.306	20.192	20.399	20.287
rkansas					17.009	17.207	17.478	17.370	17.352	17.411	17.281	17.018	16.979	16.955
alifornia							20.703	22.066	23.506	23.533	23.597	24.409	24.378	23.715
Colorado		21.322	21.530	19.808	19.992	19.497	19.660	19.778	19.685	19.566	19.574	19.465	19.663	19.817
connecticut		25.908	23.548	23.904		26.317	25.808	25.612	24.542	24.573	22.618	20.358	20.585	20.22
elaware		26.392	24.186	24.534	24.922	25.924	26.063	26.173	25.900	22.854	24.640	24.862	24.572	24.28
District of Columbia		26.948	25.920	25.619	24.322	25.524	20.003	20.173	25.900	22.034	24.040	24.002	24.372	
		23.762	22.748	23.019	23.686	24.450	24.818	24.301	24.397	24.197	24.478	24.542	24.310	24.23
lorida														
ieorgia		24.932	23.756	23.751	23.805	24.241	23.638	22.993	23.176	23.323	23.276	23.193	21.870	21.87
lawaii							17.568	22.462	21.963	21.959	22.856	22.780	22.382	22.18
laho														47.00
linois		21.448	21.002	20.259	20.593	20.969	21.587	20.232	19.008	18.963	17.986	18.052	17.941	17.68
ndiana		22.466	22.030	21.229	21.632	21.314	21.125	20.725	21.188	21.074	20.637	20.779	20.930	21.19
wa		21.218	20.888	20.385	18.633	18.197	17.826	17.464	17.742	17.752	17.459	17.407	17.368	17.28
ansas		24.192	24.100	19.957	18.370	17.537	17.841	17.465	17.358	17.408	17.096	17.078	17.185	17.00
entucky		22.892	21.852	21.481	22.917	22.769	23.091	23.299	23.220	22.856	23.026	22.910	22.742	22.82
ouisiana		16.038				16.907	16.420	16.167	16.064	16.023	15.784	15.834	15.941	15.95
laine							28.000	25.500	25.502	25.509	25.675	26.343	25.706	25.85
laryland		26.372	24.612	24.323	24.757	25.326	25.479	25.928	25.581	25.394	25.942	25.265	25.166	25.23
assachusetts	. 26.352	26.072	23.260	24.347	26.751	26.561	26.122	25.400	25.136	24.581	24.983	24.272	23.582	23.16
ichigan	. 24.884	24.804	24.202	23.662	24.025	23.393	22.243	21.377	20.876	20.353	19.803	19.723	19.574	19.80
linnesota	. 22.390	22.176	20.274	17.940	17.557	17.451	17.644	17.700	17.883	17.847	17.529	17.688	17.630	17.64
lississippi	. 24.858	24.890	24.098	23.164	23.994	24.252	25.115	22.432	23.072	23.344	19.152	18.378	18.217	17.76
lissouri		21.550	21.518	21.494	21.306	21.289	20.758	18.509	17.838	17.835	17.589	17.522	17.543	17.62
Iontana		13.140	15.474	15.959	17.003	17.307	17.105	16.995	16.762	16.768	16.921	17.004	16.984	16.87
ebraska		24.568	23.914	20.954	18.809	17.299	17.125	17.191	17.264	17.169	17.186	17.239	17.084	17.13
evada		25.488	25.654	22.388	22.078	22.768	22.191	22.120	22.465	22.428	20.354	22.531	22.199	22.40
lew Hampshire	. 25.448	27.904	27.432	26.701	26.816	26.905	26.645	26.269	26.264	26.103	26.034	26.067	26.148	25.58
lew Jersey		26.458	24.944	25.401	26.182	26.475	26.831	26.513	26.106	26.006	25.706	25.498	25.385	25.04
lew Mexico		18.004	17.966	17.849	17.695	18.376	18.234	18.061	18.388	18.503	18.572	18.352	18.448	18.54
lew York		26.678	24.664	24.050	24.635	25.200	25.718	25.912	26.096	26.039	25.592	25.100	24.074	23.489
lorth Carolina	. 26.242	25.814	24.114	23.788	24.538	24.975	25.191	25.056	24.966	24.696	24.611	24.699	24.592	24.638
orth Dakota	. 13.836	13.918	13.666	13.344	13.234	13.150	13.268	13.166	13.057	13.082	13.002	12.840	12.933	13.19
)hio	. 23.770	23.564	22.500	21.919	22.880	23.625	23.775	24.243	23.549	23.094	23.278	23.483	23.419	23.03
oklahoma		24.000		25.076	17.393	17.168	17.792	17.463	17.717	17.641	17.635	17.582	17.590	17.40
regon		24.000	25.076 	25.076	16.393	16.584	16.696	17.765	17.717	17.412	17.000	17.127	16.880	16.83
ennsylvania	. 23.436	24.095	23.341	23.498	24.176	24.445	23.352	22.654	23.163	22.445	23.565	22.983	22.900	22.490
hode Island	. 28.152	27.468	 04.074	 04.161	 04.040	 0F 100		 OF 700	 0F_407	 0F 100	 04.670			04.00
outh Carolina		25.822	24.274	24.161	24.843	25.132	25.303	25.706	25.407	25.122	24.673	24.992	24.892	24.83
outh Dakota		17.904	16.572	12.616	12.599	12.210	13.203	14.276	17.189	17.082	16.955	16.942	16.956	17.19
ennessee		23.590	22.594	21.983	23.254	23.657	23.944	24.297	24.203	24.172	23.036	22.899	22.645	22.02
exas				13.103	14.791	14.807	14.578	14.726	15.193	15.330	15.443	15.247	15.279	15.38
ah		25.184	24.812	23.650	22.900	23.607	23.002	22.789	22.926	22.748	22.518	22.303	22.082	21.70
ermont		27.340	24.870	25.744	25.926	25.628								
rginia		26.474	24.782	23.930	25.013	25.628	25.461	25.539	25.674	25.372	25.420	24.397	24.470	24.70
ashington				16.200	16.200	16.200	16.270	16.538	16.193	16.002	16.000	15.799	16.014	15.83
est Virginia		23.736	23.318	23.221	24.269	24.827	24.931	24.482	24.333	24.147	24.206	24.184	24.056	23.71
/isconsin		24.036	22.446	21.236	20.523	19.547	19.111	18.563	18.886	18.710	19.230	18.276	18.348	19.31
lyoming	. 14.846	15.990	16.534	16.626	17.590	17.510	17.682	17.542	17.633	17.727	17.439	17.790	17.645	17.56
.S. Average	. 23.922	23.781	22.575	21.650	21.357	21.023	20.777	20.542	20.511	20.337	20.238	20.082	19.980	19.98

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B13. Approximate heat content of coal consumed by the electric power sector, 2006-2022 (million Btu per short ton)

Alabama	21.541 15.306 20.270 16.958 24.388	21.674 15.085 19.972	21.261 14.457	20.714													
Alaska Arizona Arkansas California	15.306 20.270 16.958	15.085			20.974	20.818	20.593	20.025	20.444	20.206	19.806	19.472	19.540	18.842	18.490	18.529	18.074
rizona rkansas alifornia	20.270 16.958			14.546	14.538	14.599	14.748	14.674	15.109	15.060	14.963	14.792	14.793	14.805	14.671	14.863	14.877
rkansas alifornia	16.958		19.676	19.484	19.370	19.378	19.191	19.339	19.321	19.200	19.220	19.448	19.327	19.509	18.166	18.285	18.156
alifornia		16.970	17.175	17.117	17.319	17.208	17.129	17.161	17.310	17.340	17.177	17.304	17.194	17.129	17.235	17.323	17.485
		24.311	23.802	23.989	24.409	24.266	24.383	23.954	24.711								
	19.606	19.605	19.673	19.623	19.447	19.333	18.938	18.909	19.129	18.938	18.899	18.608	18.383	18.536	18.578	18.579	18.708
Connecticut	20.326	20.586	20.345	21.959	21.024	18.685	22.384	18.347	18.219	18.220	18.240	18.240	18.240	18.240	18.240	18.240	
elaware	24.637	24.816	24.548	24.681	24.598	24.940	25.499	25.774	25.780	25.882	25.820	25.785	25.790	25.590	25.880	26.420	26.341
strict of Columbia																	
lorida	24.052	24.036	23.716	23.755	23.959	23.684	23.591	23.447	23.547	23.570	23.337	23.343	23.558	23.417	23.337	23.394	23.409
leorgia	21.908	21.955	21.608	21.250	21.476	20.949	19.853	19.744	20.362	19.811	20.142	20.030	19.567	19.575	19.928	19.801	19.684
lawaii	22.077	22.125	21.306	21.414	21.150	20.398	20.481	20.154	20.629	20.800	20.839	19.694	19.564	19.780	19.827	19.810	20.230
daho																	
llinois	17.559	17.495	17.487	17.461	17.499	17.478	17.580	17.550	17.561	17.528	17.493	17.549	17.522	17.509	17.524	R 17.490	17.539
ndiana	21.079	20.923	20.869	20.807	20.841	20.721	20.844	21.092	21.276	21.395	21.556	21.627	21.160	21.363	21.812	21.549	21.617
owa	17.294	17.238	17.053	17.068	17.016	17.071	17.067	17.076	17.137	17.328	17.469	17.467	17.212	17.309	17.401	17.301	17.391
ansas	17.176	17.145	17.015	17.014	17.041	17.091	17.207	17.170	17.233	17.074	17.196	17.087	17.087	16.987	17.096	17.295	17.230
Centucky	22.855	23.225	22.889	22.724	22.880	22.604	22.571	22.459	22.603	22.388	22.318	22.293	22.261	22.106	22.432	22.305	22.247
ouisiana	16.126	16.053	15.959	16.040	15.984	16.077	16.040	16.374	16.390	15.821	15.925	16.491	16.503	16.547	16.541	16.467	17.360
Naine	25.646	26.246	25.767	25.195	26.147	25.276	25.502	25.269	25.070	24.929	25.150	25.695	25.283	24.665	22.869	23.069	19.411
Maryland	25.191	25.009	25.291	24.886	24.675	24.550	24.736	24.685	25.017	25.007	25.169	25.049	25.054	25.092	24.701	24.855	24.770
Massachusetts	23.106	22.921	22.852	23.317	23.475	23.448	23.455	23.623	22.774	22.841	22.067	22.015					
lichigan	19.852	19.723	19.530	19.317	19.372	19.186	18.866	18.604	18.849	18.822	18.689	18.538	18.666	18.695	19.031	18.858	18.954
finnesota	17.633	17.686	17.703	17.592	17.474	17.573	17.665	17.691	17.520	17.563	17.643	17.630	17.506	17.599	17.592	17.556	17.519
Aississippi	17.965	18.345	18.324	16.512	16.953	16.915	15.237	16.187	17.406	14.299	13.539	13.914	13.319	13.165	13.022	13.041	13.058
Missouri	17.539	17.553	17.526	17.444	17.467	17.484	17.559	17.546	17.525	17.513	17.491	17.436	17.515	17.278	17.494	17.606	17.623
Montana	16.854	16.834	16.783	16.913	16.830	16.831	16.893	16.899	16.747	16.872	16.856	16.938	16.940	16.776	16.945	17.162	17.142
Nebraska	17.014	17.011	16.979	17.086	17.069	16.953	17.043	17.225	16.931	16.897	16.886	16.928	16.876	16.951	17.139	17.142	17.312
levada	22.799	22.688	21.725	21.043	21.191	21.029	20.342	19.521	20.869	19.781	20.396	19.591	19.940	19.662	19.791	20.310	19.633
New Hampshire	27.363	27.573	27.171	27.190	27.122	27.259	27.306	27.235	27.337	27.095	27.210	26.984	26.546	26.225	26.378	26.394	26.368
New Jersey	25.009	23.931	23.451	23.443	23.348	25.103	25.405	25.482	25.315	25.660	26.160	26.146	25.815	26.018	25.694	25.368	25.658
New Mexico	18.525	18.430	18.365	18.453	18.325	18.338	18.158	17.880	17.954	18.012	18.515	18.805	18.595	18.410	18.463	18.633	18.528
New York	22.916	22.947	22.021	21.585	22.175	21.602	21.874	21.194	21.333	21.155	23.906	25.892	25.682	25.483	25.847		
North Carolina	24.389	24.581	24.430	24.610	24.477	24.426	24.631	24.637	24.662	24.723	24.639	24.898	24.790	24.847	24.873	24.995	25.220
North Dakota Ohio	13.072 22.817	13.171 22.705	13.302 22.428	13.326 22.901	13.513 22.907	13.624 22.907	13.643 23.737	13.619 23.717	13.665 23.870	13.657	13.736 24.498	13.614 24.566	13.470 24.032	13.466 24.535	13.528 24.708	13.526 24.750	13.471 24.711
Ohio Oklahoma	17.431	17.413	17.174	17.234	17.231	17.202	17.227	17.226	17.221	24.061 17.206	17.307	17.319	17.216	17.102	16.875	17.235	17.481
Oregon	16.720	16.736	16.675	16.837	16.837	16.771	16.749	16.911	17.221	17.243	17.307	17.236	17.210	17.102	17.229		17.401
Pennsylvania	22.223	22.286	22.013	21.924	22.004	21.694	21.735	21.572	21.256	21.319	20.854	20.578	19.911	20.436	18.796	19.695	18.155
Rhode Island		22.200	22.013	21.924	22.004	21.094	21./33	21.372	21.230	21.319	20.034	20.376	19.911	20.430	10.790	19.090	10.100
South Carolina	24.936	24.881	24.611	24.782	24.725	24.549	24.506	24.471	24.692	24.782	24.580	24.323	24.134	24.162	24.076	24.371	24.433
South Dakota	16.945	16.935	16.786	16.723	16.731	16.403	16.503	16.695	16.586	16.433	16.533	16.509	16.471	16.422	16.324	16.446	16.463
ennessee	21.970	21.698	21.208	21.033	21.519	20.656	20.472	19.992	20.415	21.019	20.756	20.298	20.759	19.712	21.398	21.896	21.166
exas	15.446	15.243	15.383	15.517	15.496	15.218	15.196	15.373	15.328	15.209	15.201	15.397	15.528	15.524	15.458	15.583	15.681
Jtah	22.047	22.304	22.217	21.908	22.295	22.153	21.906	21.928	21.918	21.599	21.322	21.202	21.442	21.722	21.827	21.870	21.803
/ermont																	
/irginia	24.825	25.056	24.782	24.806	24.750	24.508	23.606	22.752	22.916	23.058	22.534	21.962	21.385	21.528	21.980	21.484	20.462
Washington	16.278	16.289	15.902	16.191	16.101	16.095	16.209	16.471	16.501	16.549	16.724	16.647	16.477	16.518	16.653	16.733	16.959
Vest Virginia	23.832	24.064	23.653	23.774	23.947	23.791	23.874	24.077	24.204	24.444	24.411	24.445	24.541	24.838	24.912	24.847	24.815
Visconsin	17.809	17.813	17.697	17.515	17.637	17.996	17.696	17.836	18.088	17.654	17.815	17.608	17.555	17.849	17.852	17.878	17.865
Vyoming	17.386	17.281	17.294	17.368	17.342	17.304	17.461	17.510	17.382	17.393	17.398	17.290	17.403	17.382	17.457	17.520	17.406
J.S. Average	19.930	19.908	19.713	19.521	19.623	19.341	19.211	19.174	19.290	19.146	19.153	18.981	18.915	18.903	18.882	18.941	18.792

Table B14. Approximate heat content of hydrocarbon gas liquids consumed by the industrial sector, selected years, 1960-2005 (million Btu per barrel)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
laska	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
rizona	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
rkansas	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.43
alifornia	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.43
olorado	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.43
onnecticut	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
elaware	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.430
istrict of Columbia	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
orida	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
eorgia	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
awaii	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
aho	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
inois	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
diana	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
wa	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ansas	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
entucky	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ouisiana	3.783	3.786	3.648	3.630	3.804	3.666	3.819	3.816	3.635	3.631	3.570	3.662	3.623	3.606
aine	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
aryland	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
assachusetts	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ichigan	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
innesota	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ississippi	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
issouri	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ontana	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ebraska	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
evada	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ew Hampshire	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ew Jersey	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ew Mexico	3.783	3.786 3.786	3.648	3.534 3.534	3.526 3.526	3.421 3.421	3.448 3.448	3.462	3.420	3.426 3.426	3.430 3.430	3.447	3.434 3.434	3.433 3.433
ew York	3.783 3.783	3.786	3.648 3.648	3.534	3.526	3.421	3.448	3.462 3.462	3.420 3.420	3.426	3.430	3.447 3.447	3.434	3.433
orth Carolina	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
orth Dakotahio	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
klahoma	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
regon	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ennsylvania	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
hode Island	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
outh Carolina	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
outh Dakota	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ennessee	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
exas	3.783	3.786	3.648	3.589	3.669	3.542	3.572	3.589	3.560	3.548	3.534	3.547	3.532	3.528
ah	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
ermont	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.43
rginia	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.43
ashington	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.43
est Virginia	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.43
isconsin	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
/yoming	3.783	3.786	3.648	3.534	3.526	3.421	3.448	3.462	3.420	3.426	3.430	3.447	3.434	3.433
														3.51

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B15. Approximate heat content of hydrocarbon gas liquids consumed by the industrial sector, 2006-2022 (million Btu per barrel)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alabama	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
laska	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
rizona	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
kansas	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
alifornia	3.420	3.392	3.370	3.313	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.83
olorado	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
onnecticut	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
elaware	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
strict of Columbia	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841		0.041	3.841	3.841	3.841	3.841	3.841	3.84
orida	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
eorgia	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
awaii	3.420	3.392	3.370	3.313	3.841	3.841		3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
aho	3.420	3.392	3.370	3.313	3.141	3.133	3.142	3.218	3.149	3.102	3.088	3.088	3.098	3.150	3.041	3.120	3.09
nois	3.420	3.392					3.841			3.841			3.841			3.841	
diana	3.420	3.392	3.370 3.370	3.313 3.313	3.841 3.193	3.841 3.160	3.210	3.841 3.223	3.841 3.228	3.180	3.841 3.181	3.841 3.192	3.194	3.841 3.237	3.841 3.184	3.175	3.84 3.15
wa	3.420																
ansas	3.420	3.392 3.392	3.370	3.313	3.841	3.841 3.840	3.841 3.840	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84 3.04
entucky			3.370	3.313	3.840 B o ooo		R 3.255	3.788 B o ooo	3.075 B o oos	3.066 B o oso	3.071 B o ooo	3.038	3.014 R 3.214	3.017 B o 400	3.019 R 3.074	3.013 B o oos	
ouisiana	3.526	3.527	3.430	3.353	R 3.288	R 3.248		R 3.290	R 3.225	R 3.253	R 3.223	R 3.198		R 3.169		R 3.095	2.97
aine	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
aryland	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
assachusetts	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
chigan	3.420	3.392	3.370	3.313	R 3.838	R 3.838	R 3.838	R 3.839	R 3.839	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
innesota	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
lississippi	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
issouri	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ontana	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ebraska	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
evada	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ew Hampshire	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ew Jersey	3.420	3.392	3.370	3.313	3.835	3.835	3.836	3.836	3.836	3.836	3.836	3.835	3.835	3.835	3.836	3.836	3.83
ew Mexico	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ew York	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
orth Carolina	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
orth Dakota	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
hio	3.420	3.392	3.370	3.313	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.838	3.83
klahoma	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
regon	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ennsylvania	3.420	3.392	3.370	3.313	3.836	3.836	3.837	3.836	R 3.836	3.836	3.836	3.836	3.836	3.836	R 3.836	3.837	3.07
hode Island	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
outh Carolina	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
outh Dakota	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ennessee	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
xas	3.489	3.479	3.467	3.396	R 3.369	R 3.265	R 3.333	R 3.369	R 3.332	3.393	3.341	3.314	R 3.279	3.314	R 3.282	R 3.315	3.11
ah	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ermont	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
rginia	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
ashington	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
est Virginia	3.420	3.392	3.370	3.313	3.835	3.835	3.835	3.835	3.835	3.835	3.835	3.835	3.835	3.835	3.835	3.835	3.83
	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.84
risconsin	3.420	3.392	3.370	3.313	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841		3.841	3.84
/yoming	3.420	3.392	3.370	3.313	3.041	3.041	3.041	3.041	3.041	3.041	3.041	3.041	3.041	3.041	3.841	3.041	3.84
S. Average	3.479	3.468	3.446	3.375	3.394	3.316	3.360	3.388	3.344	3.384	3.341	3.314	3.291	3.310	3.259	3.287	3.1

Table B16. Approximate heat content of hydrocarbon gas liquids total consumption, selected years, 1960-2005 (million Btu per barrel)

State	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005
Alabama	3.828	3.828	3.798	3.754	3.723	3.722	3.756	3.717	3.753	3.697	3.740	3.744	3.750	3.733
laska		3.841	3.765	3.651	3.645	3.725	3.815	3.722	3.841	3.830	3.780	3.798	3.776	3.831
rizona		3.833	3.804	3.723	3.694	3.718	3.699	3.695	3.799	3.778	3.820	3.740	3.728	3.785
kansas		3.830	3.807	3.753	3.703	3.718	3.705	3.675	3.630	3.656	3.688	3.705	3.707	3.709
alifornia		3.817	3.727	3.591	3.629	3.575	3.599	3.623	3.642	3.602	3.584	3.662	3.709	3.783
olorado		3.830	3.802	3.750	3.689	3.729	3.715	3.716	3.639	3.628	3.666	3.708	3.664	3.726
onnecticut		3.818	3.748	3.663	3.676	3.678	3.706	3.746	3.737	3.722	3.787	3.738	3.708	3.627
elaware		3.798	3.691	3.592	3.571	3.717	3.704	3.745	3.782	3.764	3.805	3.771	3.783	3.74
istrict of Columbia		3.815	3.735	3.692	3.618	3.602	3.616	3.639	3.559	3.608	3.712	3.693	3.696	3.710
orida	3.832	3.834	3.818	3.790	3.684	3.736	3.757	3.695	3.722	3.694	3.759	3.746	3.780	3.73
eorgia	3.821	3.823	3.778	3.710	3.706	3.720	3.716	3.714	3.679	3.673	3.671	3.719	3.729	3.689
awaii		3.820	3.762	3.674	3.632	3.813	3.807	3.493	3.805	3.797	3.709	3.766	3.782	3.828
aho	3.831	3.827	3.802	3.757	3.651	3.661	3.720	3.696	3.778	3.817	3.824	3.794	3.819	3.765
inois		3.807	3.720	3.632	3.566	3.491	3.577	3.533	3.558	3.538	3.565	3.594	3.559	3.542
diana		3.825	3.810	3.732	3.685	3.667	3.623	3.715	3.720	3.721	3.724	3.732	3.708	3.708
wa		3.827	3.789	3.715	3.656	3.599	3.650	3.567	3.554	3.532	3.547	3.609	3.538	3.532
ansas		3.828	3.793	3.733	3.622	3.452	3.487	3.599	3.495	3.511	3.534	3.514	3.507	3.818
entucky	3.807	3.804	3.729	3.659	3.601	3.570	3.589	3.645	3.560	3.520	3.524	3.572	3.550	3.537
ouisiana		3.790	3.662	3.640	3.805	3.668	3.820	3.816	3.639	3.637	3.574	3.666	3.626	3.61
aine	3.836	3.831	3.786	3.761	3.697	3.686	3.740	3.788	3.813	3.793	3.739	3.822	3.832	3.792
aryland		3.825	3.776	3.727	3.663	3.705	3.714	3.742	3.710	3.738	3.777	3.762	3.776	3.740
assachusetts	3.828	3.826	3.768	3.695	3.647	3.732	3.696	3.773	3.747	3.719	3.726	3.812	3.827	3.788
ichigan		3.827	3.814	3.790	3.718	3.583	3.658	3.715	3.763	3.788	3.773	3.784	3.741	3.730
innesota		3.832	3.813	3.775	3.670	3.652	3.679	3.670	3.694	3.686	3.627	3.699	3.651	3.652
ississippi	3.826	3.828	3.793	3.738	3.678	3.644	3.596	3.593	3.730	3.696	3.687	3.614	3.709	3.718
issouri		3.838	3.822	3.801	3.731	3.741	3.737	3.701	3.697	3.775	3.691	3.697	3.656	3.641
ontana		3.831	3.805	3.802	3.704	3.624	3.679	3.703	3.769	3.760	3.743	3.802	3.813	3.793
ebraska	3.831	3.836	3.813	3.744	3.654	3.621	3.612	3.638	3.648	3.650	3.627	3.652	3.626	3.652
evada		3.833	3.818	3.774	3.707	3.742	3.718	3.749	3.626	3.631	3.760	3.722	3.753	3.804
ew Hampshire		3.831	3.779	3.709	3.714	3.694	3.767	3.789	3.741	3.779	3.803	3.811	3.811	3.783
ew Jersey		3.796	3.679	3.585	3.566	3.491	3.552	3.638	3.565	3.556	3.542	3.738	3.709	3.728
ew Mexico		3.819	3.762	3.669	3.623	3.778	3.553	3.513	3.776	3.811	3.802	3.795	3.781	3.781
ew York	3.834	3.833	3.793	3.756	3.696	3.757	3.795	3.788	3.742	3.750	3.779	3.771	3.767	3.722
orth Carolina		3.826	3.775	3.665	3.660	3.640	3.677	3.681	3.667	3.680	3.691	3.739	3.746	3.709
orth Dakota	3.829	3.829	3.818	3.804	3.674	3.581	3.664	3.662	3.680	3.607	3.687	3.739	3.683	3.698
hio		3.814	3.752	3.717	3.549	3.486	3.638	3.624	3.693	3.650	3.626	3.594	3.664	3.623
klahoma		3.829	3.795	3.767	3.607	3.553	3.639	3.617	3.643	3.660	3.632	3.659	3.568	3.520
regon		3.839	3.808	3.719	3.698	3.641	3.627	3.631	3.674	3.770	3.741	3.796	3.651	3.789
ennsylvania		3.816	3.744	3.667	3.613	3.585	3.643	3.725	3.737	3.690	3.714	3.660	3.656	3.619
hode Island		3.826	3.758	3.658	3.680	3.715	3.719	3.743	3.729	3.703	3.689	3.755	3.756	3.709
outh Carolina	3.830	3.830	3.790	3.739	3.705	3.730	3.727	3.715	3.649	3.636	3.710	3.739	3.767	3.717
outh Dakota		3.837	3.820	3.786	3.705	3.709	3.667	3.733	3.740	3.753	3.689	3.738	3.676	3.698
ennessee		3.826	3.819	3.804	3.732	3.713	3.738	3.755	3.735	3.723	3.704	3.764	3.738	3.722
exas		3.796	3.678	3.618	3.675	3.551	3.578	3.592	3.568	3.559	3.543	3.555	3.537	3.53
ah		3.835	3.817	3.711	3.629	3.652	3.649	3.531	3.592	3.684	3.679	3.816	3.796	3.753
ermont		3.831	3.798	3.775	3.725	3.804	3.817	3.791	3.788	3.789	3.801	3.812	3.811	3.79
rginia		3.831	3.786	3.723	3.709	3.659	3.694	3.735	3.707	3.748	3.708	3.766	3.784	3.75
ashington		3.834	3.809	3.740	3.701	3.588	3.630	3.675	3.580	3.583	3.740	3.764	3.757	3.80
est Virginia	3.811	3.805	3.699	3.616	3.570	3.525	3.572	3.559	3.656	3.774	3.738	3.758	3.773	3.74
/isconsin		3.832	3.816	3.768	3.713	3.715	3.746	3.750	3.715	3.732	3.725	3.751	3.715	3.71
/yoming		3.817	3.781	3.745	3.655	3.557	3.635	3.599	3.630	3.707	3.734	3.743	3.780	3.74
.S. Average	3.810	3.810	3.731	3.671	3.669	3.584	3.630	3.641	3.610	3.604	3.588	3.610	3.591	3.58

<sup>-- =</sup> Not applicable.
Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B17. Approximate heat content of hydrocarbon gas liquids total consumption, 2006-2022 (million Btu per barrel)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Nabama	3.721	3.674	3.747	3.754	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
laska	3.803	3.806	3.828	3.786	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
rizona	3.763	3.729	3.751	3.746	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
rkansas	3.694	3.666	3.718	3.699	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
alifornia	3.736	3.766	3.724	3.660	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840
Colorado	3.615	3.657	3.789	3.798	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Connecticut	3.598	3.635	3.830	3.824	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
elaware	3.715	3.754	3.773	3.774	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
District of Columbia	3.707	3.650	3.733	3.704	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
lorida	3.712	3.729	3.755	3.763	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Georgia	3.673	3.678	3.712	3.691	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
ławaii	3.804	3.779	3.838	3.820	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
daho	3.756	3.726	3.777	3.804	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
linois	3.541	3.528	3.567	3.513	3.367	3.345	3.321	3.450	3.335	3.297	3.283	3.293	3.326	3.383	3.374	3.377	3.337
ndiana	3.684	3.689	3.767	3.708	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
owa	3.516	3.523	3.520	3.480	3.365	3.352	3.386	3.378	3.383	3.335	3.338	3.341	3.402	3.437	3.403	3.374	3.395
ansas	3.826	3.454	3.793	3.770	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Centucky	3.522	3.504	3.516	3.497	3.840	3.840	3.840	3.800	3.261	3.238	3.226	3.164	3.164	3.211	3.167	3.180	3.233
ouisiana	3.531	3.531	3.434	3.358	R 3.293	R 3.253	R 3.258	R 3.292	R 3.229	R 3.256	R 3.226	R 3.202	R 3.218	R 3.173	R 3.078	R 3.098	2.981
Maine	3.764	3.795	3.831	3.824	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Maryland	3.719	3.738	3.780	3.772	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Massachusetts	3.705	3.722	3.816	3.819	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
lichigan	3.717	3.727	3.803	3.797	R 3.840	R 3.840	R 3.840	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Minnesota	3.650	3.642	3.683	3.626	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Mississippi	3.681	3.711	3.760	3.755	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Missouri	3.669	3.637	3.761	3.733	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Montana	3.785	3.740	3.794	3.835	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
lebraska	3.607	3.646	3.720	3.638	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
levadalevadalew Hampshire	3.788 3.755	3.783 3.788	3.738 3.810	3.731 3.807	3.841	3.841	3.841 3.841	3.841 3.841	3.841 3.841	3.841 3.841	3.841	3.841	3.841 3.841	3.841 3.841	3.841 3.841	3.841 3.841	3.841
lew Jersey	3.725	3.766	3.769	3.784	3.841 3.837	3.841 3.837	3.837	3.837	3.837	3.837	3.841 3.837	3.841 3.837	3.837	3.837	3.837	3.837	3.841 3.837
lew Mexico	3.775	3.716	3.787	3.764	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
lew York	3.738	3.765	3.799	3.804	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
North Carolina	3.678	3.676	3.741	3.708	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
North Dakota	3.684	3.658	3.729	3.681	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Ohio	3.613	3.700	3.766	3.742	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840
Oklahoma	3.488	3.746	3.762	3.774	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Oregon	3.774	3.751	3.698	3.694	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
ennsylvania	3.603	3.607	3.585	3.573	3.838	3.838	3.839	3.839	3.839	3.839	3.839	3.839	3.839	3.839	3.839	3.839	3.249
hode Island	3.682	3.716	3.743	3.729	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
outh Carolina	3.702	3.722	3.753	3.720	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
South Dakota	3.682	3.686	3.737	3.703	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
ennessee	3.704	3.712	3.764	3.799	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
exas	3.496	3.485	3.476	3.405	R 3.377	R 3.274	R 3.339	R 3.375	R 3.339	3.399	R 3.347	R 3.319	3.285	3.320	R 3.289	R 3.321	3.122
Itah	3.721	3.701	3.783	3.788	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
ermont	3.765	3.795	3.807	3.821	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
/irginia	3.722	3.748	3.782	3.778	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
/ashington	3.798	3.784	3.712	3.726	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Vest Virginia	3.723	3.741	3.759	3.780	3.837	3.837	3.837	3.837	3.837	3.837	3.837	3.836	3.837	3.837	3.837	3.837	3.837
Visconsin	3.701	3.701	3.781	3.754	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
Vyoming	3.689	3.748	3.771	3.809	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841	3.841
J.S. Average	3.551	3.544	3.549	3.487	3.489	3.423	3.440	3.468	3.439	3.461	3.424	3.400	3.381	3.401	3.349	3.369	3.229

# Thermal conversion factor source documentation

The heat content per unit of physical unit (i.e., thermal conversion factors) provided in this section represents the gross (or higher or upper) energy content of the fuel. Gross heat content is applied in all Btu calculations for the State Energy Data System and is commonly used in energy calculations in the United States; net (or lower) heat content is typically used in European energy calculations. See "Heat Content" and "British Thermal Unit (Btu)" in the Glossary for more information.

# Approximate heat content of petroleum and natural gas plant liquids

**Asphalt.** EIA adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

**Aviation gasoline.** EIA adopted the Bureau of Mines thermal conversion factor of 5.048 million Btu per barrel for "Gasoline, Aviation" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

**Aviation gasoline blending components.** Assumed by EIA to be 5.048 million Btu per barrel or equal to the thermal conversion factor of aviation gasoline. See **aviation gasoline**.

**Butylene.** EIA estimated the thermal conversion factor to be 4.377 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, *NIST Chemistry WebBook, NIST Standard Reference Database Number 69*, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute.

**Crude oil (including lease condensate) used directly.** EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."

Distillate fuel oil. (DFTCKUS)

- 1960 through 1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.285 million Btu per barrel, from the Bureau of Mines internal memorandum "Bureau of Mines Standard Average Heating Value of Various Fuels, adopted January 3, 1950."
- 1994 forward: EIA calculates the national annual average thermal conversion factor, which includes biofuels blended into distillate fuel oil, by using the heat content values of three sulfur-content categories of distillate fuel oil, weighted by quantity consumed.

**Ethane.** EIA estimated the thermal conversion factor to be 2.783 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, *NIST Chemistry WebBook, NIST Standard Reference Database Number 69*, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute.

**Ethylene.** EIA adopted the thermal conversion factor of 2.436 million Btu per barrel (0.058 million Btu per gallon) as published in the Federal Register EPA; 40 CFR Part 98; e-CRF; Table C1; April 5, 2019, http://www.ecfr.gov/cgi-bin/text-idx?SID=ae265d7d6f98ec86fcd8640b9793a3f6&mc=true&node=pt40.23.98&rgn=div5#ap40.23.98\_19.1. The ethylene higher heating value is determined at 41 degrees Fahrenheit at saturation pressure.

# **Hydrocarbon gas liquids.** (HLTCKUS and HLTCKZZ)

- 1960 through 2009: Calculated using consumption-weighted average of liquefied petroleum gases (LPG) and natural gasoline (pentanes plus).
- 2010 forward: Calculated using consumption-weighted average of nine HGL products: normal butane, butylene, ethane, ethylene, isobutane, isobutylene, natural gasoline, propane, and propylene.

**Isobutane.** EIA estimated the thermal conversion factor to be 4.183 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, *NIST Chemistry WebBook, NIST Standard Reference Database Number* 69, 2018; and

data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute.

**Isobutylene.** EIA estimated the thermal conversion factor to be 4.355 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, NIST Chemistry WebBook, *NIST Standard Reference Database Number* 69, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute.

**Jet fuel, kerosene type.** EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

**Jet fuel, naphtha type.** EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Millitary" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

**Kerosene.** EIA adopted the thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

# Liquefied petroleum gases. (LGTCKUS)

- 1960 through 1966: EIA adopted the 1967 calculated average heat content of 3.810 million Btu per barrel
- 1967 through 2009: Calculated annually by EIA as a weighted average by multiplying the quantity consumed of each of the component products by each product's conversion factor, listed in this appendix, and dividing the sum of those heat contents by the sum of the quantities consumed. The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. Quantities consumed are from: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1 (1967 through 1980), EIA, Petroleum Supply Annual, Table 2 (1981 through 2004), and EIA, Petroleum Supply Annual, Table 1 (2005 forward).

Lubricants. EIA adopted the thermal conversion factor of 6.065 million

Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

**Miscellaneous products.** EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

### Motor gasoline. (MGTCKUS)

- 1960 through 1992: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Energy Markets 1947-1985, a 1968 release of historical and projected statistics. The factor excludes oxygenates.
- 1993 forward: EIA calculates national annual average thermal conversion factor, which includes fuel ethanol blended into motor gasoline (shown in Appendix B Table B1 on page 207). For 1993-2006, it also includes methyl tertiary butyl ether (MTBE) and other oxygenates blended into motor gasoline.

### Motor gasoline blending components. (MBTCKUS)

- 1960 through 2006: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Markets 1947-1985, a 1968 release of historical and projected statistics.
- 2007 forward: EIA adopted the thermal conversion factor of 5.222 million Btu per barrel (124,340 Btu per gallon) for gasoline blendstock from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1\_2013, October 2013.

**Natural gasoline.** EIA estimated the thermal conversion factor to be 4.638 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, *NIST Chemistry WebBook, NIST Standard Reference Database Number* 69, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute. EIA assumes a natural gasoline ratio of 29% isopentane, 29% neopentane, 20% normal pentane,

В

13% normal hexane, 4% cyclohexane, 3% benzene, and 2% toluene in these calculations.

**Normal butane.** EIA estimated the thermal conversion factor to be 4.353 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, *NIST Chemistry WebBook, NIST Standard Reference Database Number* 69, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute.

Pentanes plus. EIA estimated the thermal conversion factor to be 4.638 million Btu per barrel. based on data for enthalpy of combustion from the National Institute of Standards and Technology, NIST Chemistry WebBook, NIST Standard Reference Database Number 69, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute. EIA assumes a pentanes plus ratio of 29% isopentane, 29% neopentane, 20% normal pentane, 13% normal hexane, 4% cyclohexane, 3% benzene, and 2% toluene in these calculations, see natural gasoline.

**Petrochemical feedstocks, naphtha less than 401°F.** EIA assumed the thermal conversion factor to be 5.248 million Btu per barrel, equal to that for special naphthas. See **special naphthas**.

**Petrochemical feedstock, other oils equal to or greater than 401°F.** EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel, equal to that for distillate fuel oil. See **distillate fuel oil**.

**Petrochemical feedstock, still gas.** Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **still gas**.

### Petroleum coke, catalyst. (PCCTKUS)

- 1960 through 2003: EIA adopted the Bureau of Mines thermal conversion factor of 6.024 million Btu per barrel, from the Bureau of Mines internal memorandum "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."
- 2004 forward: Assumed by EIA to be 6.287 million Btu per barrel or equal to the thermal conversion factor for residual fuel oil.

## Petroleum coke, marketable. (PCMKKUS)

• 1960 through 2003: EIA adopted the Bureau of Mines thermal conversion factor of 6.024 million Btu per barrel, from the Bureau

- of Mines internal memorandum "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."
- 2004 forward: EIA adopted the thermal conversion factor of 5.719 million Btu per barrel, calculated by dividing 28,595,925 Btu per short ton for petroleum coke (from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation Model" (GREET), version GREET1\_October 2013) by 5.0 barrels per short ton (as given in the Bureau of Mines Form 6-1300-M and successor EIA forms).

**Plant condensate.** (1973—1983) EIA estimated 5.418 million Btu per barrel from data provided by McClanahan Consultants, Inc., Houston, Texas.

**Propane.** EIA estimated the thermal conversion factor to be 3.841 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, *NIST Chemistry WebBook, NIST Standard Reference Database Number 69*, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute.

**Propylene.** EIA estimated the thermal conversion factor to be 3.835 million Btu per barrel, based on data for enthalpy of combustion from the National Institute of Standards and Technology, *NIST Chemistry WebBook, NIST Standard Reference Database Number 69*, 2018; and data for density of liquids at 60 degrees Fahrenheit and equilibrium pressure from the American Petroleum Institute.

**Residual fuel oil.** EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

**Road oil.** EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, equal to that of asphalt and first published by the Bureau of Mines in the *Petroleum Statement*, *Annual*, 1970. See **asphalt**.

**Special naphthas.** EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, equal to that of total gasoline (aviation and motor) and first published in the *Petroleum Statement, Annual, 1970.* 

B

## Still gas.

- 1960 through 2015: EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement*, *Annual*, 1970.
- 2016 forward: Assumed by EIA to be 6.287 million Btu per barrel or equal to the thermal conversion factor for residual fuel oil.

**Unfinished oil.** EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel, equal to that for distillate fuel oil and first published in the Annual Report to Congress, Volume 3, 1977. See **distillate fuel oil**.

**Unfractionated streams.** (1979—1982) EIA assumed the thermal conversion factor to be 3.800 million Btu per barrel, the average of all natural gas plant liquids calculated on their contribution to total barrels produced.

**Waxes.** EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the EIA, *Petroleum Statement*, *Annual*, 1956.

# Approximate heat content of natural gas

#### Natural gas, total consumption. (NGTCKZZ)

- 1960 through 1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.
- 1963 through 1979: EIA adopted the thermal conversion factors calculated annually by the American Gas Association (AGA) and published in Gas Facts, an AGA annual.
- 1980 through 1996: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 16.
- 1997 forward: EIA, Natural Gas Annual, Table 16, http://www.eia.gov/naturalgas/annual/ and unpublished revisions. Data from 2007 forward are also available at http://www.eia.gov/dnav/ng/ng\_cons\_heat\_a\_EPG0\_VGTH\_btucf\_a.htm.

### Natural gas, consumption by the electric power sector. (NGEIKZZ)

- 1960 through 1971: Assumed by EIA to be equal to the thermal conversion factor for the consumption of natural gas by all users. See **natural gas, total consumption.**
- 1972 through 1982: Calculated annually by EIA by dividing the total heat content of natural gas received at steam electric plants 25 megawatts or greater by the total quantity received at those electric plants. The heat contents and quantities received are from the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
- 1983 through 1988: The average heat content of natural gas received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published from 1993 forward in Btu per cubic foot in the EIA, Cost and Quality of Fuels for Electric Utility Plants, Table 14. Note: For states that reported consumption on EIA-759 but were not large enough to report on FERC Form 423, factors were estimated by using previous years' factors or the factor for total natural gas consumption in the state.
- 1989 forward: Calculated by dividing the total heat content of natural gas received at electric power plants (including electric utilities and independent power producers) by the total quantity consumed in physical units collected by EIA on Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://

В

# Approximate heat content of coal and coal coke

### Coal, consumption at coke plants. (CLKCKZZ)

- 1960 through 1997: Calculated by EIA as the consumptionweighted average of national-level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS—Anthracite conversion factor (for all end-use sectors) sources: 1960 through 1997: Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for." Bituminous coal and lignite conversion factor sources: 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coal-Bituminous and Lignite," sum of columns "Beehive coke plants" and "Ovencoke plants." 1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 8, 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 7, 1988 through 1997: EIA, Unpublished data from Form EIA-5.
- 1998 through 2000: Average total coal factors by state calculated by EIA using unpublished data from Form EIA-5. The 1998 state factors are used for 1999 and 2000.
- 2001 forward: Calculated by EIA from data reported on Form EIA-5, "Quarterly Coal Consumption and Quality Report, Coke Plants" (through 2013) and Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users," after Form EIA-5 was folded into Form EIA-3 in 2014. Coke plant data on tons of coal carbonized to create coke, the volatilities of the coal carbonized, and conversion factors based on coal volatility are used to calculate average conversion factors by state.

## Coal, consumption by the electric power sector. (CLEIKZZ)

 1960 through 1988: Calculated by EIA as the consumptionweighted average of national-level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS—Anthracite conversion factor sources: 1960 through 1972: U.S. Energy Information Administration (EIA) assumed that all anthracite consumed at electric utilities was recovered from culm banks and river dredging and was estimated to have an average heat content of 17.500 million Btu per short ton. 1973 through 1988: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. These data are reported on the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and predecessor forms. Bituminous coal and lignite conversion factor sources: 1960 through 1972: EIA adopted the average thermal conversion factor of the Bureau of Mines, which used the National Coal Association (NCA) average thermal conversion factor for electric utilities calculated from the Federal Power Commission's (FPC) Form 1 and published in Steam Electric Plant Factors, an NCA annual report. The specific tables are: 1960 and 1961, Table 1. 1962 through 1972, Table 2. 1973 through 1982: The average heat content of coal received at steam electric plants 25 megawatts or greater from FPC Form 423 and published in Btu per pound in EIA, Cost and Quality of Fuels for Electric Utility Plants, tables titled "Destination and Origin of Coal 'Delivered to' (1973-1979) 'Receipts to' (1980) 'Received at' (1981-1982) Steam-Electric Plants 25-MW or Greater." 1983 through 1988: The average heat content of coal received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published in Btu per pound in the EIA, Cost and Quality of Fuels for Electric Utility Plants. The specific tables are: 1983 and 1984, Table 58. 1985 through 1988, Table 48.

Notes: The state conversion factors for 1960 through 1972 were derived from actual consumption data, while the conversion factors for 1973 to 1988 were based on receipts of coal. The factors for 1960 through 1972 may also have included some quantities of anthracite. These breaks in the series create some data discrepancies. In instances where a state had no receipts for a particular year but did report consumption, it was assumed that the coal received in one year was consumed during the following year and the Btu value of the previous year's receipts was used.

 1989 forward: Calculated by dividing the total heat content of coal received at electric power plants (including electric utilities,

- nonutility power plants, and combined heat-and-power plants) by the total quantity consumed in physical units collected on Form EIA-923, "Power Plant Operations Report," and predecessor forms, http://www.eia.gov/electricity/data/eia923/.
- Alaska factors: The sources used to develop thermal conversion factors for bituminous coal and lignite consumed by the electric power sector—the National Coal Association report and the Federal Power Commission's (FPC) Form 423 and FERC Form 423 published in the Cost and Quality of Fuels for Electric Utility Plants—exclude Alaska. However, Alaska reported consumption of bituminous coal and lignite at electric utilities for all years, 1960 forward. Unpublished FPC heat rates for coal at electric utilities in Alaska were used for 1960 through 1972. The 1972 conversion factor (the last year for which a conversion factor was reported for Alaska) was used for 1973 through 1978. According to industry sources, new mines were opened in 1978 and a more representative factor was used for 1979 through 1997. From 1998 forward, the Alaska factor is calculated using the same methodology as is used for other states, described above.

### Coal, consumption by other industrial users. (CLOCKZZ)

• 1960 through 1997: Calculated by EIA as the consumptionweighted average of national level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS—Anthracite conversion factor sources: 1960 through 1997: Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for." Bituminous coal and lignite conversion factor sources: 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average. 1974 through 1997: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each state contained

heating values equal to those of bituminous coal and lignite received at electric utilities in each state from identified coal-producing districts as reported on Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to other industrial users in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.

- 1998 through 2000: The average heat content of coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal during the year from Form EIA-3A and published in Btu per pound in the EIA *Annual Coal Report* and predecessor publications.
- 2001 forward: Calculated by EIA using unpublished data as the average heat content of (1) coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal annually from Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users," and predecessor forms; (2) coal distributed to agricultural, mining, and construction sectors reported on Form EIA-6A, "Coal Distribution Report—Annual" with heat contents for the coal producing state reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants" (discontinued after 2007); and (3) coal consumed by coal mining facilities reported on Form EIA-7A, "Coal Production Report," with heat contents for the coal producing state reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms.

# Coal, consumption by residential and commercial users. (CLHCKZZ)

1960 through 1997: Calculated by EIA as the consumption-weighted average of national-level anthracite conversion factors and state-level bituminous coal and lignite factors using factors and consumption from SEDS—Anthracite conversion factor sources: 1960 through 1997: Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports,

and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for." Bituminous coal and lignite conversion factor sources: 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed in the residential and commercial sector by the ratios of 1960 through 1973 national averages for the sector to its 1974 average. 1974 through 1997: Calculated by EIA by assuming that the bituminous coal and lignite consumed in the residential and commercial sector in each state contained heating values equal to those of bituminous coal and lignite received at electric utilities in each state from identified coal-producing districts as reported on the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to the residential and commercial sector in each state and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.

- 1998 through 2000: The average heat content of coal received for the residential and commercial sectors as reported on Form EIA-860. For states that are not represented in data on Form EIA-860, it is assumed that the heat content of the coal receipts in theses sectors is equal to the heat content of coal received in the other industrial sector. For states that are not represented in either the Form EIA-3A data or the Form EIA-860 data (CT, NH, VT, and DC), the heat content of coal receipts in MA is used for CT, NH, and VT, and the heat content of coal receipts in MD is used for DC, because the origin of the coal receipts are similar.
- 2001 through 2007: Calculated by EIA from the coal distribution data reported on Form EIA-6A, "Coal Distribution Report— Annual," and the average heat content of coal reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants." Form EIA-6A provides distribution data for the combined residential and commercial sectors by state of origin to the destination state. FERC Form 423 and Form EIA-423 provide the average heat content of coal produced in the state of origin.

 2008 forward: Calculated by EIA using unpublished data as the average heat content of coal received at commercial and institutional establishments consuming more than 1,000 short tons of coal annually from Form EIA-3, "Quarterly Survey of Industrial, Commercial & Institutional Coal Users."

### Coal, consumption by transportation users. (CLACKZZ)

- 1960 through 1977: Assumed by EIA to be equal to the Btu conversion factor for bituminous coal and lignite consumption by industrial users other than coke plants: 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average. 1974 through 1977: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each state contained heating values equal to those of bituminous coal and lignite received at electric utilities in each state from identified coal-producing districts as reported on Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coalproducing district was applied to deliveries to other industrial users in each state and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.
- 1978 forward: Transportation sector coal is included in the other industrial category. Zero is entered for this variable.

**Coal coke**, **imports and exports**. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

# **Approximate heat content of renewable energy sources**

**Biodiesel.** EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, published in EIA's *Monthly Energy Review*, Table A1, http://www.eia.gov/totalenergy/data/monthly/pdf/sec12\_2.pdf.

**Fuel ethanol.** EIA adopted the annual denatured fuel ethanol thermal conversion factors in million Btu per barrel published in EIA's *Monthly Energy Review*, Table A3, http://www.eia.gov/totalenergy/data/monthly/pdf/sec12\_4.pdf. This factor is calculated by EIA using the quantity-weighted average of the thermal conversion factors for undenatured ethanol (3.539 million Btu per barrel), natural gasoline used as denaturant, and conventional motor gasoline used as denaturant. The factor for 2009 is used as the estimated factor for earlier years. The undenatured ethanol thermal conversion factor of 3.539 million Btu per barrel is published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Renewable diesel fuel. EIA adopted the thermal conversion factor of 5.494 million Btu per barrel (130,817 Btu per gallon) for renewable diesel II (UOP-HDO) from U.S. Department of Energy, Argonne National Laboratory, "The Greenhouse Gases, Regulated Emissions, and Energy Use in Technologies Model" (GREET), version GREET1\_2022, October 2022.

**Other biofuels.** EIA assumed the thermal conversion factor to be 5.359 million Btu per barrel or equal to the thermal conversion factor for Biodiesel.

**Wood, consumption by the residential and commercial sectors.** Estimated by EIA to be 20 million Btu per cord of wood. This rough average factor takes into account a number of variables, such as moisture content and species of wood, as explained in the EIA, *Household Energy Consumption and Expenditures 1993*, page 314.

B

# **Approximate heat rates for electricity**

Constant heat content of electricity is 3,412 Btu per kilowatthour. Electricity has an inherent heat content of 3,412 Btu per kilowatthour (kWh). SEDS uses this constant conversion factor for electricity sales to ultimate customers, electricity imports from Canada and Mexico, and electricity net generation from noncombustible renewable energy sources (hydroelectric power, geothermal, solar thermal, solar photovoltaic, and wind). There are several generally accepted methods to measure the thermal conversion rates for power plants that generate electricity from noncombustible renewable energy sources. To be consistent with international standards from the United Nations, EIA uses the *captured energy approach* to convert noncombustible renewable electricity with the constant heat content of electricity, 3,412 Btu per kWh. See EIA's *Monthly Energy Review* Appendix E for more information.

**Fossil-fueled steam-electric plant generation.** (FFETKUS) EIA uses data from Forms EIA-860 and EIA-923 (and predecessor forms) to calculate a rate factor that is equal to the annual average heat rate factor for fossil-fueled steam-electric power plants in the United States. Through 2000, EIA uses these thermal conversion factors to estimate wood and waste electricity net generation at electric utilities. Beginning in 2001, the source surveys provide Btu data for wood and waste at electric utilities.

During the SEDS 2022 data cycle, EIA updated the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (solar, wind, hydroelectric, and geothermal) to Btu using the constant conversion of 3,412 Btu per kWh (the heat content of electricity). This method is called the *captured energy approach*. Before the SEDS 2022 cycle, EIA converted noncombustible renewable energy sources to Btu using the annual U.S. average heat content of fossil fuels consumed at steam-electric power plants (FFETKUS) as a conversion factor. That method is called the *fossil fuel equivalency approach*. The *captured energy approach* is more consistent with international energy statistics standards from the United Nations than the *fossil fuel equivalency approach*. See EIA's *Monthly Energy Review* Appendix E for more information.

 1960 through 1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published by EIA in *Electric Plant Cost and Power Production* Expenses 1991, Table 9.

- 1989 through 2000: Calculated annually by EIA by using heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels.
- 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predeccessor forms. The computation includes data for all electric utilities and electricityonly independent power producers using fossil fuels.

### Nuclear steam-electric plant generation. (NUETKUS)

- 1960 through 1984: Calculated annually by EIA by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation data are reported on FERC Form 1, Form EIA-412, and predecessor forms. The factors for 1982 through 1991 are published in the following EIA reports—1982: Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215; 1983 and 1984: Electric Plant Cost and Power Production Expenses 1991, Table 13.
- 1985 forward: Calculated annually by EIA using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms), and the generation reported on Form EIA-923, "Power Plant Operations Report" (and predecessor forms).

# Appendix C. Metric and other physical conversion factors

Data presented in the State Energy Data System (SEDS) are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons.

The metric conversion factors presented in Table C1 can be used to calculate the metric-unit equivalents of values expressed in U.S. customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table C2.

The conversion factors presented in Table C3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

**Table C1. Metric conversion factors** 

J.S. unit	multiplied by	Conversion factor	equals	Metric unit	U.S. unit	multiplied by	Conversion factor	equals	Metric unit
Mass					Volume				
short tons (2,000 lb)	) x	0.9071847	=	metric tons (t)	barrels of oil (b)	Х	0.1589873	=	cubic meters (m³)
long tons	Х	1.016047	=	metric tons (t)	cubic yards (yd³)	Х	0.764555	=	cubic meters (m³)
pounds (lb)	Х	0.45359237ª	=	kilograms (kg)	cubic feet (ft³)	Х	0.02831685	=	cubic meters (m³)
pounds uranium oxide (lb U <sub>3</sub> O <sub>8</sub> )	Х	0.384647 <sup>b</sup>	=	kilograms uranium (kgU)	U.S. gallons (gal)	Х	3.785412	=	liters (L)
ounces, avoirdupois (avdp oz)	s x	28.34952	=	grams (g)	ounces, fluid (fl oz)	Х	29.57353	=	milliliters (mL)
					cubic inches (in³)	Х	16.38706	=	milliliters (mL)
Length					Area				
miles (mi)	Х	1.609344ª	=	kilometers (km)	acres	Х	0.40469	=	hectares (ha)
yards (yd)	Х	0.9144ª	=	meters (m)	square miles (mi²)	Х	2.589988	=	square kilometers (km²)
feet (ft)	Х	0.3048ª	=	meters (m)	square yards (yd²)	Х	0.8361274	=	square meters (m²)
inches (in)	Х	2.54 <sup>a</sup>	=	centimeters (cm)	square feet (ft²)	Х	0.09290304ª	=	square meters (m²)
					square inches (in²)	Х	6.4516ª	=	square centimeters (cm²)
Energy					Temperature				
British thermal units (Btu)	X	1,055.05585262 <sup>a,0</sup>	=	joules (J)	degrees Fahrenheit (°F)	Х	5/9 (after subtracting 32) <sup>a,d</sup>	=	degrees Celsius (°C)
calories (cal)	Х	4.1868ª	=	joules (J)					
kilowatthours (kWh)	Х	3.6ª	=	megajoules (MJ)					

<sup>&</sup>lt;sup>a</sup>Exact conversion.

Note: Most metric units shown belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units.

Data Sources: General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. National Institute of Standards and Technology, Special Publications 330, 811, and 814. American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268–1992, pp. 28 and 29.

<sup>&</sup>lt;sup>b</sup>Calculated by the U.S. Energy Information Administration.

<sup>°</sup>The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956.

<sup>&</sup>lt;sup>d</sup>To convert degrees Celsius (°C) to degrees Fahrenheit (°F) exactly, multiply by 9/5, then add 32.

**Table C2. Metric prefixes** 

Unit multiple	Prefix	Symbol	Unit subdivision	Prefix	Symbol
10¹	deka	da	10-1	deci	d
10 <sup>2</sup>	hecto	h	10-2	centi	С
10³	kilo	k	10-3	milli	m
10 <sup>6</sup>	mega	M	10-6	micro	μ
10 <sup>9</sup>	giga	G	10-9	nano	n
1012	tera	Т	10-12	pico	р
10 <sup>15</sup>	peta	Р	10 <sup>-15</sup>	femto	f
1018	exa	E	10-18	atto	а
1021	zetta	Z	10-21	zepto	Z
1024	yotta	Υ	10-24	yocto	У

Data Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p. 10.

Table C3. Other physical conversion factors

Energy source	Original unit		Conversion factor	F	inal unit
Petroleum	barrels (b)	Х	42ª	=	U.S. gallons (gal)
Coal	short tons	Χ	2,000a	=	pounds (lb)
	long tons	Х	2,240a	=	pounds (lb)
	metric tons (t)	Х	1,000a	=	kilograms (kg)
Wood	cords (cd)	х	1.25 <sup>b</sup>	=	short tons
	cords (cd)	Х	128ª	=	cubic feet (ft³)

<sup>&</sup>lt;sup>a</sup>Exact conversion.

Data Source: U.S. Department of Commerce, National Institute of Standards and Technology, *Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17, and C-21.

<sup>&</sup>lt;sup>b</sup>Calculated by the U.S. Energy Information Administration.

# Appendix D. Data and methodology changes

Tables and data files in the State Energy Data System (SEDS) supply a new year of data each production cycle. The latest data may be preliminary and, therefore, revised the following cycle. Changes made to consumption and price source data for historical years are also regularly incorporated into SEDS.

Listed below are changes in SEDS contents beyond the standard updates.

#### Petroleum

# Aviation gasoline

For 2022 forward, SEDS changes the method for estimating U.S.-level aviation gasoline prices and state-level aviation gasoline consumption. EIA suspended its survey EIA-782 and *Prime Supplier Report* after data year 2021 that provided prices to end users and prime supplier sales volumes. To estimate U.S.-level prices, SEDS uses regression models with historical SEDS U.S. aviation gasoline price estimates as the dependent variable and EIA's U.S. premium gasoline retail prices and Refinitiv's U.S. crude oil spot prices as the independent variables. SEDS assigns all states the same annual U.S. price. To estimate state-level consumption, SEDS allocates U.S. aviation gasoline product supplied to the states using the 2021 state shares. See the SEDS technical notes for more information.

# Renewable energy

# Fuel ethanol

For 2022 forward, SEDS changes the source used to allocate conventional and reformulated motor gasoline by state, which SEDS uses to estimate fuel ethanol consumption. After data year 2021, EIA suspended its survey EIA-782 and *Prime Supplier Report* that provided prime supplier sales of conventional and reformulated motor gasoline by state. Instead for 2022 forward, SEDS uses unpublished shipments from refineries and terminals data from surveys EIA-810 and EIA-815 to estimate conventional and reformulated motor gasoline by state. See the SEDS technical notes for more information.

## Geothermal, hydroelectric, solar, and wind

For 1960 forward, SEDS updated the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (geothermal, hydroelectric power, solar, and wind) to use the *captured energy approach* instead of the *fossil fuel equivalency approach*. The *captured energy approach* uses the constant heat conversion factor for electricity, which is 3,412 British thermal units per kilowatthour (Btu/kWh). The *captured energy approach* is more consistent with international energy statistics standards than the *fossil fuel equivalency approach*. For more information about the consumption of noncombustible renewable energy sources, see the SEDS consumption technical notes. For more information on the *captured energy approach* and *fossil fuel equivalency approach*, see EIA's *Monthly Energy Review* (MER) Appendix E.

# Total energy and energy indicators

# Capacity factors and usage factors

State data are available in SEDS for capacity factors (2008 forward) and usage factors (2013 forward). The SEDS capacity factors and usage factors data are a total for all sectors, including the electric power, commercial, and industrial sectors, and include any utility-scale combined-heat-and-power (CHP) units, for the year in thousand kilowatts. The data are from EIA's Form EIA-860 and Form EIA-923. For more information, see energy indicators technical notes.

# Electric vehicle charging infrastructure

State data are available in SEDS for electric vehicle (EV) charging infrastructure for 2015 forward. The data are for non-single-family residential EV charging locations and include breakouts of the number of private vs. public and networked vs. non-networked locations, and number of Level 1, Level 2, DC fast, and Legacy charging ports at the end of the calendar year. The data are from the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy Alternative Fuels Data Center (AFDC) and National Renewable Energy Laboratory (NREL). For more information, see energy indicators technical notes.

D

# Electric vehicle electricity consumption

State data are available in SEDS for estimated electric vehicle (EV) electricity consumption for 2018 forward. These estimates are based on experimental models and subject to model error. The estimates are for total electricity consumption, a sub-set of EIA's electricity sales to ultimate customers data, for on-road, light-duty (less than or equal to 8,500 pounds) battery electric vehicles (BEV), plug-in hybrid electric vehicles (PHEV), and total EVs only. EIA does not separately estimate sector-level EV consumption data. The experimental estimates come from unpublished data in EIA's *Electric Power Monthly* (EPM). For more information, see the EPM technical documentation and SEDS technical notes.

### Electric vehicle stocks

State data are available in SEDS for electric vehicle (EV) stocks for 2016 forward. The SEDS EV stocks data are for the number of registered lightduty vehicles at the end of the calendar year, including breakouts for battery electric vehicles (BEV), plug-in hybrid electric vehicles (PHEV), total EVs, and total (all fuels) light-duty vehicles. The U.S.-level data are from S&P Global Mobility Vehicles in Operation, except the 2017 data that are estimates interpolated by EIA. The state-level estimates use state shares from the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy Alternative Fuels Data Center (AFDC) to allocate the U.S.-level data to the states. For more information, see energy indicators technical notes.

# Gross domestic product

Revised real and current-dollar gross domestic product (GDP) data by state are available in SEDS for 1997 forward. The data are for all industries total from the U.S. Bureau of Economic Analysis (BEA), which released comprehensive revisions for all state GDP data for 1997 forward in May 2024, including a change in real dollar units to 2017 chained dollars. For more information, see the SEDS technical notes.

# Glossary

**Asphalt:** A dark brown-to-black cement-like material obtained by petroleum processing and containing bitumens as the predominant component; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. *Note:* The conversion factor for asphalt is 5.5 barrels per short ton.

**ASTM:** American Society for Testing and Materials

**Aviation gasoline (finished):** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

**Aviation gasoline blending components:** Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are re-ported as other hydrocarbons, hydrogen, and oxygenates.

Barrel (petroleum): A unit of volume equal to 42 U.S. gallons.

Barrels per calendar day: The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see Barrels per stream day) to account for the following limitations that may delay, interrupt, or slow down production: 1. the capability of downstream processing units to absorb the output of crude oil processing facilities of a given refinery. No reduction is necessary for intermediate streams that are distributed to other than downstream facilities as part of a refinery's normal operation; 2. the types and grades of inputs to be processed; 3. the types and grades of products expected to be manufactured; 4. the environmental constraints associated with refinery operations; 5. the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and 6. the reduction of capacity for unscheduled downtime

due to such conditions as mechanical problems, repairs, and slowdowns.

**Barrels per stream day:** The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

**Battery electric vehicle (BEV):** An all-electric vehicle that receives power by plugging into an electric power source and storing the power in a battery pack. BEVs do not use any petroleum-based or other liquid- or gas-based fuel during operation and do not produce tailpipe emissions.

**Biodiesel (B100):** Renewable fuel consisting of mono alkyl esters (long chain fatty acids) that are produced through the conversion of animal fats, vegetable oils, and recycled grease feedstocks (transesterification) to produce biodiesel. Biodiesel is typically blended with petroleum diesel in concentrations of 2% to 20% biodiesel, or B2 to B20.

**Biofuels:** Liquid fuels and blending components produced from biomass feedstocks, used primarily for transportation.

**Biomass:** Organic non-fossil material of biological origin constituting a re-newable energy source.

**Biomass waste:** Organic non-fossil material of biological origin that is a byproduct or a discarded product. Biomass waste includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. *Note:* EIA biomass waste data also include energy crops grown specifically for energy production, which would not normally constitute waste.

**Black liquor:** A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

**British thermal unit (Btu):** The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (about 39 degrees

Fahrenheit).

**Bunker fuels:** Fuel supplied to ships and aircraft, both domestic and foreign, consisting primarily of residual and distillate fuel oil for ships and kerosene-based jet fuel for aircraft. The term "international bunker fuels" is used to denote the consumption of fuel for international transport activities. Note: For the purposes of greenhouse gas emissions inventories, data on emissions from combustion of international bunker fuels are subtracted from national emissions totals. Historically, bunker fuels have meant only ship fuel.

**Butane** ( $C_4H_{10}$ ): A straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams, which is gaseous at standard temperature and pressure. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association specifications for commercial butane.

**Butylene** (C<sub>4</sub>H<sub>8</sub>): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Butylene is used in the production of gasoline and various petrochemical products.

**Catalytic cracking:** The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Chained dollar gross domestic product: A measure of gross domestic product using real prices. See chained dollars and gross domestic product (GDP).

Chained dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Before 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period covered and is therefore subject to less distortion over time.

**Coal:** A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50% by weight and more than 70% by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

**Coal coke:** A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000 degrees Fahrenheit so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke from coal is gray, hard, and porous and has a heating value of 24.8 million Btu per ton.

**Coke plants:** Plants where coal is carbonized for the manufacture of coke in slot or beehive ovens.

**Combined heat and power (CHP) plant:** A plant designed to produce both heat and electricity from a single heat source. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Polices Act (PURPA).

**Commercial sector:** An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; federal, state, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

**Conversion factor:** A factor for converting data between one unit of measurement and another (such as between short tons and British thermal units, or between barrels and gallons). (See <a href="http://www.eia.gov/totalenergy/data/monthly/pdf/mer\_a.pdf">http://www.eia.gov/totalenergy/data/monthly/pdf/mer\_b.pdf</a> for further information on conversion factors.)

Cord of wood: A cord of wood measures 4 feet by 4 feet by 8 feet, or

128 cubic feet.

Crude oil (including lease condensate): A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, crude oil may also include: 1. small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently comingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2. Small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; 3. Drip gases, and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

**Crude oil used directly:** Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

**Cubic foot (cf), natural gas:** The amount of natural gas contained at stan-dard temperature and pressure (60 degrees Fahrenheit and 14.73 pounds standard per square inch) in a cube whose edges are one foot long.

**Denaturant:** Petroleum, typically pentanes plus or conventional motor gasoline, added to fuel ethanol to make it unfit for human consumption. Fuel ethanol is denatured, usually before transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant.

**Diesel fuel:** A fuel composed of distillates obtained in petroleum refining operation or blends of such distillates with residual fuel oil used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

**Distillate fuel oil:** A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and

electric power generation.

**Electric power sector:** An energy-consuming sector that consists of electricity only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public—i.e., North American Industry Classification System 22 plants. See combined-heat-and-power (CHP) plant and electricity only plant. The electric power sector consumes primary energy to generate electricity and heat (forms of secondary energy). Electricity is sold to the four enduse sectors (residential, commercial, industrial, and transportation), stored for future use, and exported to other countries.

**Electric utility:** A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investorowned electric utilities, municipal and state utilities, federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included.

**Electric vehicle (EV):** A general term for any on-road licensed vehicle that can plug into an electric power source and uses electric power to move. EVs plug into a source of electricity and store power in a battery pack for all or part of their power needs. Includes Battery electric vehicles (BEVs) and Plug-in hybrid vehicles (PHEVs). Can also be referred to as Plug-in Electric Vehicles (PEV).

**Electrical system energy losses:** The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted for uses.

**Electricity sales to ultimate customers:** Electricity sales that are consumed by the customer and not available for resale. Includes electric sales to end users by third-party owners of behind-the-meter PV solar systems.

**End-use energy consumption:** End-use sector (residential, commercial, industrial, and transportation) consumption of primary energy plus electricity sales to ultimate customers. The energy associated with electrical system energy losses is not included.

**End-use sectors:** The residential, commercial, industrial, and transportation sectors of the economy.

**Energy:** The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily

convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units (Btu).

**Energy consumption:** The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

**Energy-consuming sectors:** The residential, commercial, industrial, transportation, and electric power sectors of the economy.

**Ethane** (C<sub>2</sub>H<sub>2</sub>): A straight-chain saturated (paraffinic) hydrocarbon extracted predominantly from the natural gas stream, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -127 degrees Fahrenheit.

Ethanol (C2HEOH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See **fuel** ethanol.

**Ethylene** (C<sub>2</sub>H<sub>4</sub>): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Ethylene is used as a petrochemical feedstock for many chemical applications and the production of consumer goods.

**Exports:** Shipments of goods from within the 50 states and the District of Columbia to U.S. possessions and territories or to foreign countries.

Federal Energy Regulatory Commission (FERC): The federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

Fiscal year: The U.S. Government's fiscal year runs from October 1 through September 30. The fiscal year is designated by the calendar year in which it ends; e.g., fiscal year 2002 begins on October 1, 2001, and ends on September 30, 2002.

Fossil fuel: An energy source formed in the Earth's crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Fossil-fuel steam-electric power plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1% water). Fuel ethanol is denatured (made unfit for human consumption), usually before transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use.

Fuel ethanol excluding denaturant: See fuel ethanol minus denaturant.

Fuel ethanol minus denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel.

**Gasohol:** A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration between 5.7% and 10% by volume.

Geothermal energy: Hot water or steam extracted from geothermal reser-voirs in the Earth's crust. Water or steam extracted from geothermal reser-voirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gross domestic product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

Gross generation: The total amount of electric energy produced by

generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in British thermal units (Btu). *Note:* Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending on whether the available heat energy includes or excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The Energy Information Administration typically uses gross heat content values.

**Heat rate:** A measure of generating station thermal efficiency commonly stated as Btu per kilowatthour. *Note:* Heat rates can be expressed as either gross or net heat rates, depending on whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

**Hydrocarbon gas liquids (HGL):** A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline, and their associated olefins, including ethylene, propylene, butylene, and isobutylene. As marketed products, HGL represents all natural gas liquids (NGL) and olefins. EIA reports production of HGL from refineries (liquefied refinery gas, or LRG) and natural gas plants (natural gas plant liquids, or NGPL). Excludes liquefied natural gas (LNG).

**Hydroelectric power:** The use of flowing water to produce electric power.

**Hydroelectric power, conventional:** Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

**Hydroelectric pumped storage:** Hydroelectric power that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in an electric power plant at a lower level.

**Hydroelectric power plant:** A plant in which the turbine generators are driven by falling water.

Imports: Receipts of goods into the 50 states and the District of Columbia

from U.S. possessions and territories or from foreign countries.

**Independent power producer:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility. Note: Independent power producers are included in the electric power sector.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

**Isobutane** ( $C_4H_{10}$ ): A branch-chain saturated (paraffinic) hydrocarbon extracted from both natural gas and refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 11 degrees Fahrenheit.

**Isobutylene** (C<sub>4</sub>H<sub>8</sub>): A branch-chain olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Isobutylene is used in the production of gasoline and various petrochemical products.

**Jet fuel:** A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet fuel, kerosene-type: A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10% recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbo jet and turbo prop aircraft engines.

**Jet fuel, naphtha-type:** A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20% to 90% distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower

freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. *Note:* Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

**Kerosene:** A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10% recovery point, a final maximum boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. Also see **Jet Fuel, Kerosene-type**.

**Kilowatthour (kWh):** A measure of electricity defined as a unit of work or energy, measured as 1 kilowatt (1,000 watts) of power expended for 1 hour. One kWh is equal to 3,412 Btu.

**Lease and plant fuel:** Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and as fuel in natural gas processing plants.

**Lease condensate:** A mixture consisting primarily of hydrocarbons heavier than pentanes that is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas plant liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities.

**Liquefied petroleum gases (LPG):** A group of hydrocarbon gases, primarily propane, normal butane, and isobutane, derived from crude oil refining or natural gas processing. These gases may be marketed individually or mixed. They can be liquefied through pressurization (without requiring cryogenic refrigeration) for convenience of transportation or storage. Excludes ethane and olefins. Note: In some EIA publications, LPG includes ethane and marketed refinery olefin streams, in accordance with definitions used prior to January 2014.

**Lubricants:** Substances used to reduce friction between bearing surfaces, or incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils, from spindle oil to cylinder oil to those used in greases.

**Methanol (CH<sub>3</sub>OH):** A light, volatile alcohol eligible for gasoline blending. **Miscellaneous petroleum products:** Includes all finished products not

classified elsewhere (e.g., petrolatum lube refining by products (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feed stocks, and specialty oils).

**Motor gasoline (finished):** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10% recovery point to 365 to 374 degrees Fahrenheit at the 90% recovery point. Motor Gasoline includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. *Note:* Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

**Motor gasoline blending components:** Naphthas (e.g., straight-run gas-oline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include re-formulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note:* Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

**Natural gas:** A gaseous mixture of hydrocarbon compounds, the primary one being methane.

**Natural gas liquids (NGL):** A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline. Generally include natural gas plant liquids and all liquefied refinery gases except olefins.

**Natural gas, dry:** Natural gas which remains after: 1. the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2. any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

**Natural gasoline:** A commodity product commonly traded in natural gas liquids (NGL) markets that comprises liquid hydrocarbons (mostly pentanes and hexanes) and generally remains liquid at ambient temperatures and atmospheric pressure. Natural gasoline is equivalent

to pentanes plus.

**Net generation:** The amount of **gross generation** less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from **gross generation**.

**Net interstate flow of electricity:** The difference between the sum of electricity sales and losses within a state and the total amount of electricity generated within that state. A positive number indicates that more electricity (including associated losses) came into the state than went out of the state during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the state than came into the state.

**Net summer capacity:** The maximum output, commonly expressed in thousand kilowatts (kW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

**Non-biomass waste:** Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonutilities: See nonutility power producer.

**Nonutility power producer:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for electric generation and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers). Nonutility power producers are without a designated franchised service area and do not file forms listed in the *Code of Federal Regulations*, Title 18, Part 141.

**Normal butane** (C<sub>4</sub>H<sub>10</sub>): A straight-chain saturated (paraffinic) hydrocarbon extracted from both natural gas and refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 31 degrees Fahrenheit.

**North American Industry Classification System (NAICS):** A classification scheme, developed by the Office of Management and Budget to replace the Standard Industrial Classification (SIC) System, that categorizes establishments according to the types of production processes they primarily use.

**Nuclear electric power (nuclear power):** Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

**Other biofuels:** Fuels and fuel blending components, except biodiesel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

**Other energy losses:** Energy losses throughout the energy system as they are consumed, usually in the form of heat, that are not separately identified by the U.S. Energy Information Administration. Examples include heat lost in the process of burning motor gasoline to move vehicles or in electricity used to power a lightbulb.

**PAD Districts or PADD:** Petroleum Administration for Defense Districts. A geographic aggregation of the 50 states and the District of Columbia into five Districts, with PADD 1 further split into three subdistricts. The PADDs include the states listed below:

- PADD 1 (East Coast):
  - PADD 1A (New England): Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.
  - PADD 1B (Central Atlantic): Delaware, District of Columbia, Maryland, New Jersey, New York, and Pennsylvania.
  - PADD 1C (Lower Atlantic): Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia.
- PADD 2 (Midwest): Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, and Wisconsin.
- PADD 3 (Gulf Coast): Alabama, Arkansas, Louisiana, Mississippi, New Mexico, and Texas.
- PADD 4 (Rocky Mountain): Colorado, Idaho, Montana, Utah, and Wyoming.
- PADD 5 (West Coast): Alaska, Arizona, California, Hawaii, Nevada, Oregon, and Washington.

**Pentanes plus:** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Pentanes plus is equivalent to natural gasoline.

**Petrochemical feedstocks:** Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. In this report the categories reported are "Naphtha Less Than 401°F" and "Other Oils Equal to or Greater Than 401°F."

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

**Petroleum coke:** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton.

Petroleum coke, catalyst: The carbonaceous residue that is deposited on and deactivates the catalyst used in many catalytic operations (e.g., catalytic cracking). Carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. That carbon or coke is not recoverable in a concentrated form.

Petroleum coke, marketable: Those grades of coke produced in delayed or fluid cokers that may be recovered as relatively pure carbon. Marketable petroleum coke may be sold as is or further purified by calcining.

Petroleum consumption: The sum of all refined petroleum products sup-plied. See products supplied (petroleum).

Petroleum products: Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, hydrocarbon gas liquids, aviation gasoline, motor gasoline, naphthatype jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Photovoltaic energy: Direct-current electricity generated from photovoltaic cells. See photovoltaic cells (PVC).

Photovoltaic cells (PVC): An electronic device consisting of layers of semiconductor materials fabricated to form a junction (adjacent layers of materials with different electronic characteristics) and electrical contacts and being capable of converting incident light directly into electricity (direct current).

Plant condensate: Liquid hydrocarbons recovered at inlet separators or scrubbers in natural gas processing plants at atmospheric pressure and ambient temperatures. Mostly pentanes and heavier hydrocarbons.

Plug-in hybrid electric vehicle (PHEV): A vehicle that can both (1) plug into an electric power source and store power in a battery pack and (2) use petroleum-based or other liquid- or gas-based fuel to power an internal combustion engine (ICE).

**Primary energy consumption:** Consumption of primary energy. EIA includes the following in U.S. primary energy consumption:

- Coal
- · Coal coke net imports
- Petroleum (equal to petroleum products supplied, excluding biofuels)
- · Dry natural gas, excluding supplemental gaseous fuels
- · Nuclear electricity net generation (converted to Btu using the average annual heat rate of nuclear plants)
- · Conventional hydroelectricity net generation (converted to Btu using the heat content of electricity)
- Geothermal electricity net generation (converted to Btu using the heat content of electricity), geothermal heat pump energy, and geothermal direct-use thermal energy
- Solar thermal and photovoltaic electricity net generation, both utility-scale and small-scale (converted to Btu using the heat content of electricity)
- Solar thermal direct-use energy
- Wind electricity net generation (converted to Btu using the heat content of electricity)
- · Wood and wood-derived fuels
- Biomass waste
- · Biofuels (fuel ethanol, biodiesel, renewable diesel, and other biofuels)
- Losses and co-products from the production of biofuels
- · Electricity net imports (converted to Btu using the electricity heat content of electricity)

Primary energy consumption also includes all non-combustion uses of fossil fuels. Energy sources produced from other energy sources for example, coal coke from coal—are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. As a result, U.S. primary energy consumption does include net imports of coal coke, but it does not include the coal coke produced from domestic coal.

**Product supplied (petroleum):** Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows; field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

**Propane** (C<sub>3</sub>H<sub>8</sub>): A straight-chain saturated (paraffinic) hydrocarbon extracted from natural gas or refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -44 degrees Fahrenheit. It includes all products designated in ASTM Specification D1835 and Gas Processors Association specifications for commercial (HD-5) propane.

**Propylene** (C<sub>3</sub>H<sub>6</sub>): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Propylene is an important petrochemical feedstock.

**Refinery (petroleum):** An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

**Refinery olefins:** Subset of olefinic hydrocarbons (olefins) produced at crude oil refineries, including ethylene, propylene, butylene, and isobutylene.

**Renewable diesel fuel:** Renewable fuel consisting of hydrocarbon molecules, produced through the hydrotreating of animal fats, vegetable oils, and recycled grease feedstocks. It is considered a drop-in replacement to petroleum-based diesel fuel (for example, it can be used in diesel engines without modification). Renewable diesel fuel reported on the EIA-819 is produced at dedicated biorefineries or co-processed at petroleum refineries.

**Renewable energy:** Energy resources that are naturally replenishing but flow-limited. They are virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time. In this report, renewable sources of energy include biomass, hydroelectric power, geothermal, solar, and wind.

**Residential sector:** An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning,

lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VVF-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore powerplants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Road oil:** Any heavy petroleum oil, including residual asphaltic oil, used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

**Short ton:** A unit of weight equal to 2,000 pounds.

**Solar energy:** The radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.

**Special naphthas:** All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

**Standard Industrial Classification (SIC):** Replaced with North American Industry Classification System. See **NAICS**.

**Still gas:** Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane and ethane. May contain hydrogen and small/trace amounts of other gases. Still gas is typically consumed as refinery fuel or used as petrochemical feedstock. Still gas burned for refinery fuel may differ in composition from marketed still gas sold to other users.

**Supplemental gaseous fuels supplies:** Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

**Total energy consumption:** Primary energy consumption, electricity sales to ultimate customers, and electrical system energy losses allocated to each end-use sector. Also includes other energy losses throughout the energy system.

**Transportation sector:** An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.

Unfinished oils: All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated streams: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

United States: The 50 states and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 states and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Value added by manufacture: A measure of manufacturing activity that is derived by subtracting the cost of materials (which covers materials, supplies, containers, fuel, purchased electricity, and contract work) from the value of shipments. This difference is then adjusted by the net change in finished goods and work-in-progress between the beginning and endof-year inventories.

**Vessel bunkering:** Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going ves-sels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste energy: Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw used as fuel. See biomass waste and non-biomass waste.

Wax: A solid or semi-solid material consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 100 and 200 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Wind energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.